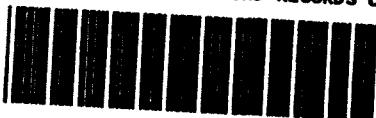


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WASTE DISPOSAL INC

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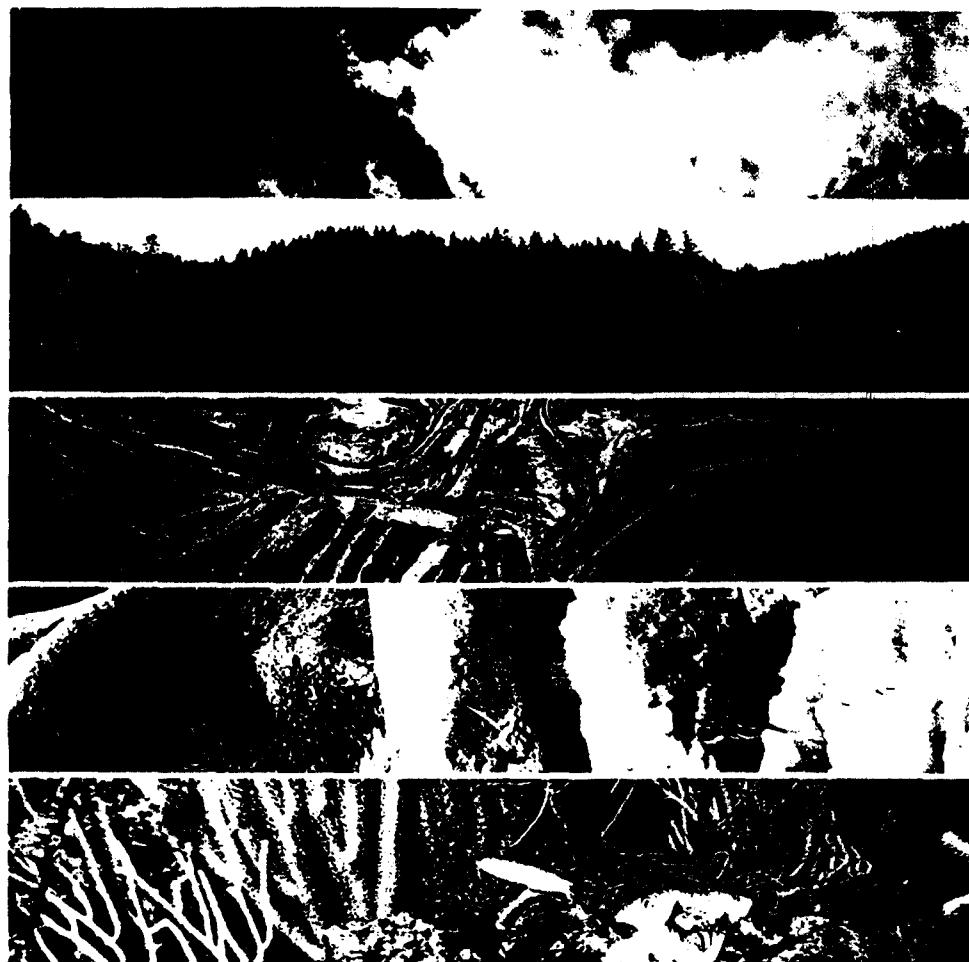
HAZARDOUS WASTE MANAGEMENT DIVISION



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SUMMARY OF FINDINGS
PHASE II INVESTIGATION
WASTE DISPOSAL INC. SITE
FOR REDEVELOPMENT AGENCY
CITY OF SANTA FE SPRINGS, CALIFORNIA

MARCH 14, 1985
SANTA BARBARA, CALIFORNIA

Dames & Moore



Dames & Moore

222 East Anapamu Street
Santa Barbara, California 93101-2074
(805) 965-3055

March 14, 1985

Redevelopment Agency
City of Santa Fe Springs
11710 Telegraph Road
Santa Fe Springs, California 90670

Attention: Mr. Richard H. Weaver
Director

Gentlemen:

SUMMARY OF FINDINGS
PHASE II INVESTIGATION
WASTE DISPOSAL, INC. SITE
FOR REDEVELOPMENT AGENCY
CITY OF SANTA FE SPRINGS, CALIFORNIA

1.0 INTRODUCTION

This report presents a summary of our Phase II investigation of the former Waste Disposal, Inc. site in Santa Fe Springs, California. The site is an undeveloped tract of land situated northeast of Los Nietos Road, northwest of Greenleaf Avenue, and southeast of Santa Fe Springs Road (Figure 1, in pocket). The site contains a concrete-lined disposal reservoir as well as several unlined peripheral sumps, all of which are concealed beneath a mantle of fill soil.

The purpose of our initial (Phase I) investigation was to evaluate whether materials present in the main reservoir and peripheral sumps contain potentially hazardous compounds. This objective was accomplished through a limited program of soil/waste sampling and laboratory analysis. As discussed in our report dated December 7, 1984, several compounds identified in samples taken

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during the Phase I investigation are included in the list of chemical names of compounds considered to be hazardous (California Administrative Code, Title 22, Division 4, Chapter 30, Article 9, Section 66680). These compounds include benzene, trans-1,2 dichloroethene, ethylbenzene, methylene chloride, toluene, trichloroethene, and naphthalene. On the basis of the results of our initial subsurface investigation, the Redevelopment Agency requested Dames & Moore to further evaluate conditions at the former Waste Disposal Inc. site.

2.0 PURPOSE AND SCOPE

The purpose of our Phase II investigation is to: (1) to evaluate the chemical character of the surface soil at the site as well as in a portion of the athletic field which borders the site to the northeast; and (2) to assess ground water quality in the uppermost saturated zone both upgradient and downgradient from the site. In order to accomplish these two objectives we have completed a scope of work consisting of:

- ° Surveying of soil sample and monitoring well localities;
- ° Collection and chemical analysis of surface soil samples;
- ° Installation of one upgradient and two downgradient ground water monitoring wells; and
- ° Collection and chemical analysis of ground water samples from each of the three wells.

These tasks are described in more detail below.

3.0 INVESTIGATIVE METHODS

3.1 HEALTH AND SAFETY PLAN

A Health and Safety Plan was established prior to implementation of site activities. The purpose of the plan was to assign responsibilities, establish

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personnel protection protocol and safety procedures, and provide for contingencies in the event that unanticipated hazards arise during the course of field operations.

3.2 SURFACE SOIL SAMPLING PROGRAM

Samples of the upper one foot of soil were collected by a Dames & Moore geologist at each of the surveyed locations shown on Figure 1. Samples A-2, A-3, A-4, Z-3, and Z-4 were collected in the southern half of the school athletic field located adjacent to the northeast portion of the site. The remaining sample locations shown on Figure 1 are within the fenced portion of the site. In addition, two other surface soil samples (X-1 and X-2) were collected in a vacant lot northeast of the school and approximately 1050 to 1300 feet northeast of the site (Figure 7). These samples were collected in order to provide data for comparison of samples taken from the site to ambient (background) soil conditions.

The samples were collected with a stainless steel scoop from shallow holes approximately one-foot deep. The scoop was washed in a trisodium phosphate solution prior to sampling at each location. The samples were placed in wide-mouth sample jars with teflon-lined caps which were stored in coolers refrigerated with blue ice. Appropriately labeled samples along with chain-of-custody forms were shipped via overnight courier to California Analytical Laboratories in Sacramento, California. The samples were field tested for pH by measuring a solution composed of roughly one part soil and one part distilled water. In addition, the samples were screened for organic vapors using a portable photoionization (hnu) detector. A small plastic sample bag was partially filled with soil and tested by inserting the probe of the detector inside the plastic bag.

3.3 MONITORING WELL INSTALLATION AND GROUND WATER SAMPLING

In order to obtain samples of ground water from the uppermost saturated zone, three ground water monitoring wells were installed within the fenced area of the site. One of the wells was positioned in an area suspected to be upgradient from the main disposal reservoir and the other two wells were located in areas believed to be downgradient from the reservoir. Water level elevations in the three wells were used to verify the suspected gradient on the water table.

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The well borings were drilled to the water table using hollow stem auger drilling equipment to enable the collection of undisturbed soil samples in the unsaturated zone. Soil samples were obtained at five foot intervals and sealed, handled and shipped according to the procedures described in our Phase I Summary of Findings dated December 7, 1984. A protective steel casing was grouted in place to a depth of approximately 20 feet after drilling and sampling was completed to this depth. This was done to prevent downhole migration of contaminants from the upper 20 feet of soil to lower soil horizons and/or ground water.

The well borings were drilled to approximately 23 to 26 feet below top of the saturated zone using conventional rotary drilling methods to insure proper well construction. A biodegradable drilling fluid additive (Variflo) was used in the drilling mud to promote borehole stability. The monitoring wells were constructed of 4-inch diameter, schedule 40 PVC casing and horizontally slotted screen with flush threaded joints (no glue was used). The wells were filter packed with clean sand and sealed with bentonite (pellets) immediately above the top of the screen. The remaining annular space of each well was filled with a cement slurry and the well heads encased in a locking steel cap within a steel-reinforced concrete christy box.

The wells were developed by bailing at least five to ten well volumes prior to sampling. Specific conductivity and pH were monitored during the development process and bailing continued until both of these parameters stabilized. Ground water samples were then obtained using a teflon bailer. The samples were appropriately labeled and shipped with chain-of-custody documentation in coolers with blue ice to California Analytical Laboratories.

3.4 ANALYTICAL TESTING PROGRAM

Selected samples were analyzed by California Analytical Laboratories in Sacramento, California for CAM inorganics (metals) and U.S. EPA priority pollutant organics (Table 1). All analyses were performed according to procedures specified by the California Department of Health Services (CAM metals) or the U.S. EPA (methods 624 and 625 for priority pollutants). It should be noted that the detection limits for priority pollutants vary considerably from sample to sample (Appendix A). This variation in detection limits is related to the

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total organic content of each sample; that is, detection limits for a soil sample consisting of relatively clean soil (Sample F-6) are markedly lower than for a sample consisting primarily of waste material with a high organic content (MW-2 (abandoned), Sample 1) (Appendix A). This occurs because samples that contain relatively high levels of organics must be diluted in order to achieve adequate resolution of component organic species in the sample. This dilution factor results in an increase of the detection limits for that particular sample.

4.0 INVESTIGATIVE RESULTS

4.1 SURFACE SOIL SAMPLING PROGRAM

A total of 33 soil samples were collected from the site and from the adjacent athletic field at the localities shown on Figure 1. In general, the samples consisted of loose silty sand, fine gravel with occasional asphalt, concrete, and wood fragments, and plant matter. Each of the samples was field tested for pH and organic vapor emissions. The results of the field testing are shown on Table 2. All of the surface soil samples yielded pH readings between 6.66 and 8.14. No unusually high or low pH values were noted. In addition, the organic vapor measurements made with the photoionization (hnu) detector were all relatively low (less than 1 P.I.D. unit). No indication of significant emissions of organic vapors from the surface soils were apparent from these readings.

Each of the surface soil samples were analyzed by California Analytical Laboratories for CAM inorganics (metals). The results of these analyses are contained in Appendix A and summarized in Table 3. The DHS considers any material which contains a substance listed in Table 1 to be a hazardous waste if: (1) the total concentration of any listed inorganic compound exceeds the Total Threshold Limit Concentration (TTLC) for that compound; or (2) the extractable concentration (in mg/l), as determined by a Waste Extraction Test (WET), of any listed inorganic compound exceeds the respective Soluble Threshold Limit Concentration (STLC) for that compound. All of the samples were analyzed for total metals concentrations. In cases where the total concentration of a particular compound exceeded the respective STLC value, the extractable concentration was determined by performing the WET procedures. The

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results of the WET tests are shown in parentheses in Table 3. Extractable concentrations which exceed the respective STLC value are underlined in Table 3.

In addition to the surface soil samples discussed above, two other surface soil samples (X-1 and X-2) were collected from a vacant lot located northeast of the school as shown on Figure 8. The purpose of analyzing these two samples for CAM inorganics was to provide data for comparison of the results of samples collected at the site with ambient (background) levels of inorganics in surface soil outside of the immediate site vicinity. As shown in Table 3, total concentrations of lead in samples X-1 and X-2 are generally similar to those in site samples. This suggests that the relatively high concentrations of lead found in samples at the site may not be related to past site disposal activities. However, elevated levels of other elements such as barium, copper, and vanadium are present in site samples but not in samples X-1 and X-2.

Two of the surface soil samples, F-6 and Z-4, were analyzed for EPA priority pollutants using EPA approved methods 624 and 625. The results of these analyses are presented in Appendix A (pages A-34, A-35, A-38 and A-39). Neither of these two samples contain any priority pollutants in concentrations greater than the detection limits of the analytical method.

4.2 MONITORING WELL INSTALLATION

One upgradient (MW-1) and two downgradient (MW-2 and MW-3) monitoring wells were installed at the locations shown on Figures 1 and 8. The logs of the well borings and well construction diagrams are shown on Figures 2, 3, and 5. Figure 4 presents the log of Boring MW-2 (abandoned). A monitoring well was not installed at this location because liquid waste was encountered below approximately five feet. It was decided not to attempt to install a well in an area with liquid waste in order to avoid migration of liquid waste down the boring as it was advanced to the water table.

A sample of the waste encountered in Boring MW-2 (abandoned) as well as a sample of black oily (solid) waste from Well Boring MW-1 (Figure 2, Sample 2, 10 feet) was analyzed for EPA priority pollutant organics (Methods 624 and 625). The results of these analyses are presented in Appendix A (pages A-42

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through A-45). The DHS may determine that a waste is hazardous if it contains any of the priority pollutant organic compounds. The California Administrative Code (Title 22, Division 4, Chapter 30, Article 9, Section 66680) states that a waste that "...contains a material cited in the List of Chemical Names or the List of Common Names presented in this Article shall be considered a hazardous waste...". Compounds that have been detected in one or both of the two samples and that appear on the List of Chemical Names include fluoranthene, naphthalene, benzo(a)pyrene, phenanthrene, and ethylbenzene. In addition, total xylenes (a non-priority pollutant) in the range of 420 to 820 parts per billion were found. The analytical results indicate that these two samples contain potentially hazardous concentrations of these compounds.

Water levels in the monitoring wells were measured shortly after well development and several weeks subsequent to development. The results of these gaugings are presented in Table 4. The gradient as determined from the second set of water level measurements is considered to be more representative of water table conditions as the wells had had time to fully equilibrate. As shown in Figure 8, the gradient of the water table as determined from the second set of measurements is to the southwest but is very shallow (slope of only about 0.2%). These results indicate that the wells were positioned properly to collect water samples upgradient and downgradient from the main disposal reservoir.

4.3 GROUND WATER SAMPLING AND ANALYSIS

Water samples collected from the three wells were analyzed for CAM inorganics and EPA priority pollutant organics. The results of these analyses are presented in Appendix A (pages A-47 through A-56). None of the water samples contained CAM inorganic compounds above the analytical detection limits. Likewise none of the samples contained EPA priority pollutant organics (Methods 624 and 625) above the analytical detection limits. Because Well MW-3 is located near a pesticide storage area, the water sample from this well was analyzed by EPA Method 608 for organochlorine pesticides and PCB's. One compound, chlordane, was found at a concentration of 12 parts per billion. The recommended action for a drinking water source (Department of Health Services, revision of August 24, 1984) for chlordane is 0.55 parts per billion.

5.0 SUMMARY

The results of our investigation can be summarized as follows:

- ° No indication of significant emissions of organic vapors from the surface soils were apparent from the photoionization detector readings;
- ° Surface soil samples collected on site contain levels of CAM inorganic compounds (such as copper, barium, and vanadium) above those found in samples collected outside of the immediate site vicinity. Elevated lead levels were found in both on site and off site surface soil samples;
- ° Neither of the two surface soil samples analyzed for EPA priority pollutants contained detectable concentrations of priority pollutant organics;

→ Priority pollutant organic compounds detected in waste samples collected in the well borings include fluoranthene, naphthalene, benzo(a)pyrene, phenanthrene, and ethylbenzene;

- ° Water level elevations determined in the three observation wells installed on site indicate that the water table gradient direction is to the southwest (roughly perpendicular to Los Nietos Road) at a slope of about 0.2%;

→ None of the water samples collected in the monitoring wells contained EPA priority pollutants (Methods 624 and 625) or CAM inorganics above the detection limits of the analytical methods;

→ The water sample from Well MW-3 (located near a pesticide storage area) contains chlordane at a concentration of 12 parts per billion (ppb). The action level for chlordane for a drinking water source is 0.55 ppb (Department of Health Services, revision of August 24, 1984).

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We look forward to discussing this report with you. If you should have any questions, please do not hesitate to call us.

Very truly yours,

DAMES & MOORE

T.A. Vinckier
Associate

R.E. Troutman
Project Geologist

TAV:REI:adj

4s/17-8

4S/17-9

-9-

DRAFT

TABLE I
ANALYTICAL TESTING PROGRAM

Dames & Moore <u>Sample I.D.</u>	<u>Depth</u>	<u>Analyses Performed</u>		<u>Results in</u> <u>Appendix A</u>
		<u>CAM Metals</u>	<u>EPA 624, 625</u>	
<u>SURFACE SOIL SAMPLES</u>				
A-1	0-1 ft	X		Page A-3
A-2	0-1 ft	X		Page A-4
A-3	0-1 ft	X		Page A-5
A-4	0-1 ft	X		Page A-6
A-5	0-1 ft	X		Page A-7
B-1	0-1 ft	X		Page A-8
B-2	0-1 ft	X		Page A-9
B-3	0-1 ft	X		Page A-10
B-4	0-1 ft	X		Page A-11
B-5	0-1 ft	X		Page A-12
C-1	0-1 ft	X		Page A-13
C-2	0-1 ft	X		Page A-14
C-3	0-1 ft	X		Page A-15
C-4	0-1 ft	X		Page A-16
C-5	0-1 ft	X		Page A-17
D-2	0-1 ft	X		Page A-18
D-3	0-1 ft	X		Page A-19
D-5	0-1 ft	X		Page A-20
D-6	0-1 ft	X		Page A-21
D-7	0-1 ft	X		Page A-22
E-2	0-1 ft	X		Page A-23
E-3	0-1 ft	X		Page A-24
E-4	0-1 ft	X		Page A-25
E-5	0-1 ft	X		Page A-26
E-6	0-1 ft	X		Page A-27
E-7	0-1 ft	X		Page A-28
F-2	0-1 ft	X		Page A-29
F-3	0-1 ft	X		Page A-30
F-4	0-1 ft	X		Page A-31
F-5	0-1 ft	X		Page A-32
F-6	0-1 ft	X	X	Page A-33-35
Z-3	0-1 ft	X		Page A-36
Z-4	0-1 ft	X	X	Page A-37-39
X-1	0-1 ft	X		Page A-40
X-2	0-1 ft	X		Page A-41-46
<u>WELL BORING SOIL SAMPLES</u>				
MW-2 (Abandoned), Sam. 1	5 ft		X	Page A-42-43
MW-1, Sam. 2	10 ft.		X	Page A-44-45
<u>WATER SAMPLES</u>				
MW-1 (A-E)	-	X	X	Page A-47-49
MW-2 (A-E)	-	X	X	Page A-50-52
MW-3 (A-E)	-	X	X	Page A-53-56

Plus EPA 608

TABLE 2
 SURFACE SOIL SAMPLES FIELD TEST RESULTS

<u>Sample</u>	<u>pH</u>	<u>P.I.D.*</u>
A-1	7.52	0.6
A-2	7.41	0.5
A-3	6.86	0.3
A-4	6.82	0.4
A-5	7.13	0.2
B-1	7.14	0.7
B-2	6.84	1.0
B-3	8.02	0.4
B-4	8.14	0.3
B-5	7.90	-1
C-1	7.92	0.5
C-2	7.74	0.6
C-3	6.66	0.1
C-4	7.75	0.3
C-5	7.35	0.4
D-2	7.47	0.8
D-3	7.42	0.1
D-5	7.99	0.5
D-6	7.92	0.3
D-7	8.04	0.5
E-2	7.63	0.5
E-3	7.64	0.2
E-4	7.45	0.2
E-5	7.23	0.8
E-6	7.69	0.8
E-7	7.58	0.5
F-2	7.63	0.5
F-3	-1	0.1
F-4	-1	0.1
F-5	7.30	0.2
F-6	-1	0.1
Z-3	7.24	0.2
Z-4	7.93	0.6

* Photoionization (hnu) detector, results in P.I.D. units (calibrated to 55 ppm benzene).

1 Instrument malfunctioning.

TABLE 3
 SUMMARY OF ANALYTICAL RESULTS FOR CAM* INORGANIC COMPOUNDS (METALS)¹
 (Results in mg/kg)

Element	Total Threshold Limit Concentration (mg/kg net wt.)	Soluble Threshold Limit Concentration (mg/l leachate)	A-1	A-2	A-3	A-4	A-5	B-1	B-2	B-3
			<5	<5	<5	<5	<5	<5	<5	<5
Arsenic	500	5	<5	<5	<5	<5	<5	<5	<5	18(<4)
Antimony	500	15	<5	<5	<5	<5	<5	<5	<5	<5
Barium	10,000	100	140	87	96	150(4.2)	280(5.1)	170(6.2)	160(4.6)	180(3.6)
Beryllium	75	0.75	0.67	0.52	0.56	0.56	0.60	0.51	0.72	<0.5
Cadmium	100	1	<0.5	<0.5	<0.5	0.55	0.56	<0.5	0.86	0.66
Chromium III/IV ²	2500/500	560/5	23	15	16	18	20	17	20	16
Cobalt	8000	80	9.2	7.4	7.5	7.7	8.3	7.9	9.0	6.9
Copper	2500	25	29(0.42)	13	15	21	32(0.60)	18	30(1.1)	22
Lead	1000	5	171 <u>(9.6)</u>	6.6(<1)	26(<1)	72(2.9)	56(2.4)	82(4.7)	36(2.7)	48(1.1)
Mercury	20	0.2	-	-	-	-	-	-	-	-
Molybdenum	3500	350	<10	<10	<10	<10	<10	<10	<10	<10
Nickel	2000	20	15	9.7	11	11	15	12	19	8.8
Selenium	100	1	<1	<1	<1	<1	<1	<1	<1	<1
Silver	500	5	<2	<2	<2	<2	<2	<2	<2	<2
Thallium	700	7	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium	2400	24	31(<0.5)	23	25(<0.5)	25(<0.5)	27(<0.5)	24(<0.5)	35(0.54)	22
Zinc	5000	250	123	44	70	140	88	84	68	83

¹ Samples were analyzed first for total concentration of metals; in cases where total concentration found exceeds Soluble Threshold Limit Concentration (STLC), Waste Extraction (WET) tests were performed to determine soluble fraction of that metal. These results are shown in parentheses. Underlined values in parentheses signify cases where the extractable concentration (soluble fraction) exceeds the STLC for that element.

² Reported as CR III plus CR IV.

* CAM: California Assessment Manual, California Department of Health Services.

TABLE 3 (continued)

<u>Element</u>	<u>Total Threshold Limit Concentration (mg/kg net wt.)</u>	<u>Soluble Threshold Limit Concentration (mg/l leachate)</u>	<u>B-4</u>	<u>B-5</u>	<u>C-1</u>	<u>C-2</u>	<u>C-3</u>	<u>C-4</u>	<u>C-5</u>	<u>D-2</u>
Arsenic	500	5	16(<4)	29(<4)	<5	<5	<5	<5	<5	<5
Antimony	500	15	<5	<5	<5	<5	<5	<5	<5	<5
Barium	10,000	100	97	100(2.1)	220(6.1)	310(6.2)	140(2.6)	130(3.3)	150(6.2)	150(2.1)
Beryllium	75	0.75	0.50	0.52	0.70	0.58	0.58	0.59	0.77(<0.2)	<0.5
Cadmium	100	1	0.50	0.52	<0.5	0.69	0.64	<0.5	1.3(<0.1)	0.62
Chromium III/IV ²	2500/500	560/5	14	15	24	20	18	18	20	17
Cobalt	8000	80	6.4	5.8	10	7.2	8.3	8.9	9.2	4.8
Copper	2500	25	15	19	28(<0.2)	21	29(0.23)	22	27(0.28)	54(2.5)
Lead	1000	5	25(<1)	24(<1)	92(<u>5.1</u>)	57(1.9)	82(3.2)	11(<1)	57(3.3)	130(<1)
Mercury	20	0.2	-	-	-	-	-	-	-	-
Molybdenum	3500	350	<10	<10	<10	<10	<10	<10	<10	<10
Nickel	2000	20	8.8	11	16	14	16	14	22(0.60)	10
Selenium	100	1	<1	<1	<1	<1	<1	<1	<1	<1
Silver	500	5	<2	<2	<2	<2	<2	<2	<2	<2
Thallium	700	7	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium	2400	24	22	23	32(0.66)	28(0.51)	28(<0.5)	29(<0.5)	19	19
Zinc	5000	250	69	85	130	58	80	48	110	110

¹ Samples were analyzed first for total concentration of metals; in cases where total concentration found exceeds Soluble Threshold Limit Concentration (STLC), Waste Extraction (WET) tests were performed to determine soluble fraction of that metal. These results are shown in parentheses. Underlined values in parentheses signify cases where the extractable concentration (soluble fraction) exceeds the STLC for that element.

² Reported as CR III plus CR IV.

* CAM: California Assessment Manual, California Department of Health Services.

TABLE 1 (continued)

<u>Element</u>	<u>Total Threshold Limit Concentration (mg/kg net wt.)</u>	<u>Soluble Threshold Limit Concentration (mg/l leachate)</u>	<u>D-3</u>	<u>D-5</u>	<u>D-6</u>	<u>D-7</u>	<u>E-2</u>	<u>E-3</u>	<u>E-4</u>	<u>E-5</u>
Arsenic	500	5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony	500	15	<5	<5	<5	<5	<5	<5	<5	<5
Barium	10,000	100	140(2.1)	180(3.4)	120(3.2)	200(3.9)	160(5.2)	410(1.5)	83	410(3.8)
Beryllium	75	0.75	0.50	0.51	0.50	0.52	0.77(<0.05)	0.56	0.50	<0.5
Cadmium	100	1	0.58	0.58	0.52	0.83	2.4(0.10)	<0.5	<0.5	0.54
Chromium III/IV ²	2500/500	560/5	16	18	14	19	20	19	12	25
Cobalt	8000	80	7.7	7.1	6.9	7.3	8.0	8.1	6.3	6.6
Copper	2500	25	46(1.0)	39(0.80)	26(<1)	36(1.2)	25(<0.1)	45(2.2)	12	130(8.8)
Lead	1000	5	19(<1)	110 <u>(6.2)</u>	41(1.2)	86(2.8)	35(0.47)	80(0.28)	13 <u>(0.66)</u>	130 <u>(6.1)</u>
Mercury	20	0.2	-	-	-	-	-	-	-	-
Molybdenum	3500	350	<10	<10	<10	<10	<10	<10	<10	<10
Nickel	2000	20	15	13	14	16	27(0.82)	13	10	15
Selenium	100	1	<1	<1	<1	<1	<1	<1	<1	<1
Silver	500	5	<2	<2	<2	<2	<2	<2	<2	<2
Thallium	700	7	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium	2400	24	24(<0.5)	25(<0.5)	26(<0.5)	27(<0.5)	41(0.60)	27(0.50)	21	23
Zinc	5000	250	79	130	56	130	74	120	34	130

¹ Samples were analyzed first for total concentration of metals; in cases where total concentration found exceeds Soluble Threshold Limit Concentration (STLC), Waste Extraction (WET) tests were performed to determine soluble fraction of that metal. These results are shown in parentheses. Underlined values in parentheses signify cases where the extractable concentration (soluble fraction) exceeds the STLC for that element.

² Reported as CR III plus CR IV.

* CAM: California Assessment Manual, California Department of Health Services.

TABLE 3 (continued)

<u>Element</u>	<u>Total Threshold Limit Concentration (mg/kg net wt.)</u>	<u>Soluble Threshold Limit Concentration (mg/l leachate)</u>	<u>E-6</u>	<u>E-7</u>	<u>F-2</u>	<u>F-3</u>	<u>F-4</u>	<u>F-5</u>	<u>F-6</u>	<u>Z-3</u>
Arsenic	500	5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony	500	15	<5	<5	<5	<5	<5	<5	<5	<5
Barium	10,000	100	290(5.2)	220(2.7)	900(1.4)	280(3.8)	140(5.6)	63	110(3.6)	87
Beryllium	75	0.75	<0.5	0.58	0.60	0.60	0.76(0.05)	<0.5	0.61	0.63
Cadmium	100	1	1.1(0.068)	1.0(0.06)	0.52	0.66	<0.5	<0.5	1.5(0.12)	<0.5
Chromium III/IV ²	2500/500	560/5	18	39	17	21	23	12	19	16
Cobalt	8000	80	5.7	7.8	8.2	8.8	11	4.8	8.4	8.0
Copper	2500	25	30(1.4)	29(0.52)	24	120(2.2)	20	26(0.67)	130(14)	13
Lead	1000	5	130 <u>(14)</u>	140(2.1)	20(0.13)	84(2.1)	9.8(0.16)	60(2.3)	62(2.8)	7.6(0.23)
Mercury	20	0.2	-	-	-	-	-	-	-	-
Molybdenum	3500	350	<10	<10	<10	<10	<10	<10	<10	<10
Nickel	2000	20	16	16	17	18	16	9.4	17	9.6
Selenium	100	1	<1	<1	<1	<1	<1	<1	<1	<1
Silver	500	5	<2	<2	<2	<2	<2	<2	<2	<2
Thallium	700	7	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium	2400	24	22	29(0.60)	29(0.68)	28(0.55)	37(0.74)	19	30(<0.5)	28(<0.5)
Zinc	5000	250	100	89	56	150	50	64	190	36

¹ Samples were analyzed first for total concentration of metals; in cases where total concentration found exceeds Soluble Threshold Limit Concentration (STLC), Waste Extraction (WET) tests were performed to determine soluble fraction of that metal. These results are shown in parentheses. Underlined values in parentheses signify cases where the extractable concentration (soluble fraction) exceeds the STLC for that element.

² Reported as CR III plus CR IV.

* CAM: California Assessment Manual, California Department of Health Services.

TABLE 3 (concluded)

<u>Element</u>	<u>Total Threshold Limit Concentration (mg/kg net wt.)</u>	<u>Soluble Threshold Limit Concentration (mg/l leachate)</u>	<u>Z-4</u>	<u>X-1</u>	<u>X-2</u>
Arsenic	500	5	<5	<5	<5
Antimony	500	15	<5	<5	<5
Barium	10,000	100	94	100	92
Beryllium	75	0.75	0.52	0.69	0.50
Cadmium	100	1	<0.5	<0.5	0.64
Chromium III/IV ²	2500/500	560/5	15	26	18/<5
Cobalt	8000	80	7.2	11	8.0
Copper	2500	25	13	19	18
Lead	1000	5	28(0.97)	8.4	47
Mercury	20	0.2	-	<0.1	<0.1
Molybdenum	3500	350	<10	<10	<10
Nickel	2000	20	9.4	14	12
Selenium	100	1	<1	<1	1.9
Silver	500	5	<2	<2	<2
Thallium	700	7	<1	7.7	6.2 *
Vanadium	2400	24	24	35	26
Zinc	5000	250	<0.5	49	88

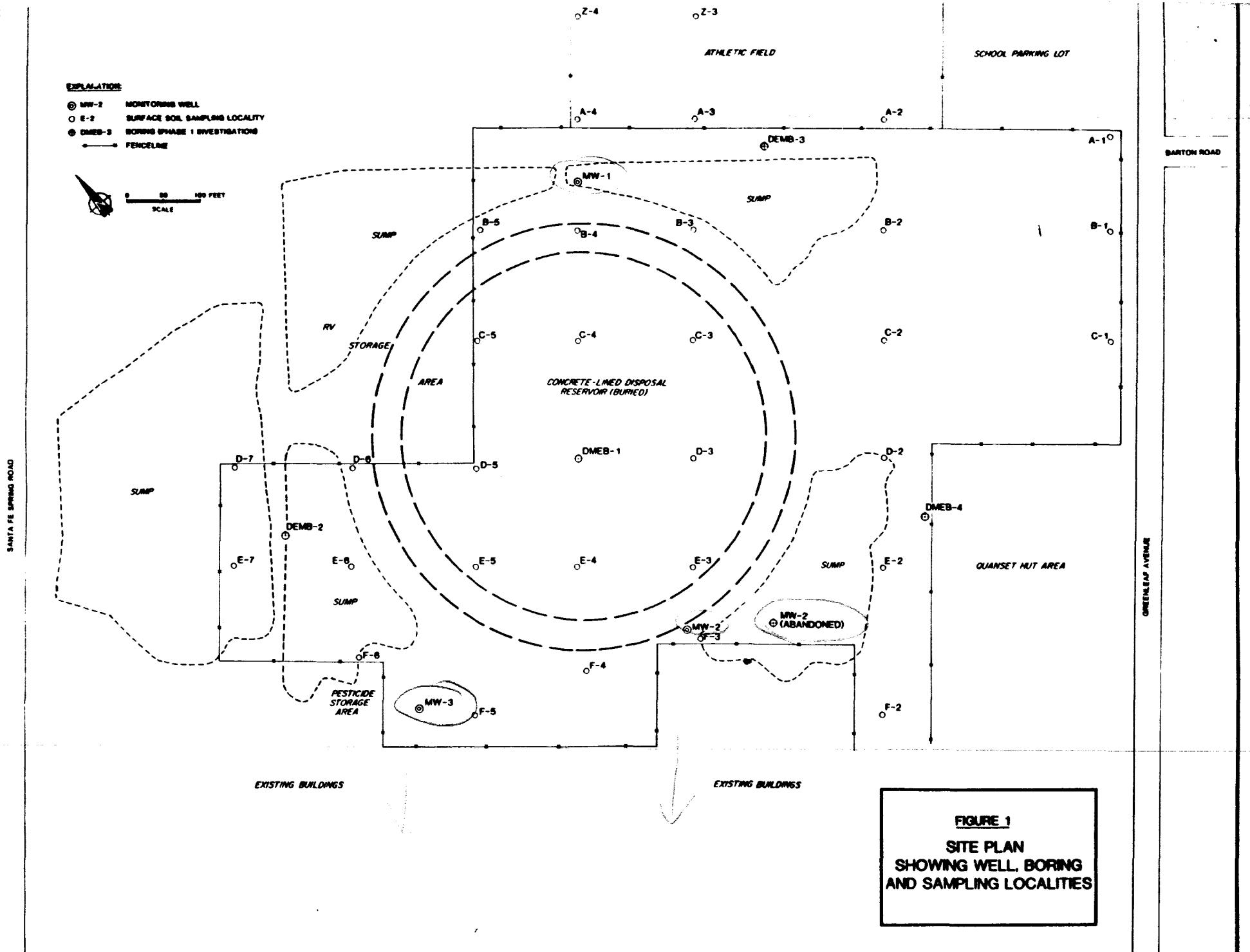
¹ Samples were analyzed first for total concentration of metals; in cases where total concentration found exceeds Soluble Threshold Limit Concentration (STLC), Waste Extraction (WET) tests were performed to determine soluble fraction of that metal. These results are shown in parentheses. Underlined values in parentheses signify cases where the extractable concentration (soluble fraction) exceeds the STLC for that element.

² Reported as CR III plus CR IV.

* CAM: California Assessment Manual, California Department of Health Services.

TABLE 4
WATER LEVEL MEASUREMENTS

	Water Level Elevation	
	<u>1/22/85</u>	<u>3/4/85</u>
MW-1	117.89	117.79
MW-2	116.37	116.53
MW-3	116.58	116.28



BORING MW-1

SURFACE ELEVATION: 170.35 FEET

DEPTH METERS FEET	WELL CONSTRUCTION	SAMPLE DATA		SOIL TYPE	DESCRIPTION	ODOR	
		P.I.D. BLOWS PER FOOT	SAMPLE DEPTH		SAMPLE NUMBER	SAMPLE TYPE	USCS SYMBOLS
80							
75							
70							
65							
60							
55							
50							
45							
40							
35							
30							
25							
20							
15							
10							
8							
6							
4							
2							
0							

* PHOTOIONIZATION (PID) DETECTOR
(READINGS IN P.I.D. UNITS)

FIGURE 2
LOG OF BORING MW-1

BORING MW-2

SURFACE ELEVATION: 166.99 FEET

DEPTH METERS FEET	WELL CONSTRUCTION	SAMPLE DATA					SOIL TYPE	DESCRIPTION	ODOR
		PID*	BLOWS PER FOOT	SAMPLE DEPTH	SAMPLE NUMBER	SAMPLE TYPE			
5	11" BOREHOLE						CL	DARK ORANGISH BROWN SILTY CLAY	NONE
10	9" STEEL CASING	1	16	5	1	■			
15		1	16	10	2	■		GRADING WITH TRACE TO SOME FINE TO MEDIUM SAND	NONE
20	CEMENT JACKET	1	75	15	3	■		AS ABOVE (APPEARS TO BE NATURAL SOIL)	NONE
25		1	35	20	4	■		ORANGISH BROWN SILTY CLAY	NONE
30	STAINLESS STEEL BLANK CASING	1	43	25	5	■		GRADING TO DRY VERY FINE TO FINE SAND	NONE
35		1	55	30	6	■		GRADES WITH TRACE LAYERS OF FINE TO COARSE SAND AND FINE GRAVEL	NONE
40		1	26	35	7	■		GRADED WITH SILTY CLAY MATRIX	NONE
45	11" BOREHOLE	1	77	40	8	■		LIGHT GREY FINE TO MEDIUM SAND	NONE
50	BENTONITE SEAL REMOVED	1	86.5	45	9	■		GRADES WITH SOME COARSE SAND	NONE
55	WATER LEVEL INDICATOR	1	72	51	10	■	SM/M	GRADING TO ORANGISH BROWN INTERBEDDED FINE SANDY SILT AND CLAYEY SILT WATER AT 50.5 FEET	NONE
60	4" SCH 40 PVC SCREEN (0.010" SLOTS)	1	80.4	55	11	■	SF	CLEAN GREY MEDIUM SAND	NONE
65								GRADING TO FINE SAND	
70	FILTER PACK (#2 MONTEREY SAND)							GRADING TO MEDIUM TO COARSE SAND	
75								GRADING TO FINE SAND	
80								GRADING TO COARSE SAND AND FINE GRAVEL	
								BORING TERMINATED AT 70 FEET ON JANUARY 22, 1971	
								* PHOTOIONIZATION (HNU) DETECTOR (READINGS IN P.I.D. UNITS)	

FIGURE 3
LOG OF BORING MW-2

BORING MW-2 (ABANDONED)

SURFACE ELEVATION: NOT SURVEYED

DEPTH METERS FEET	WELL CONSTRUCTION	SAMPLE DATA					SOIL TYPE	DESCRIPTION	ODOR
		P.I.D.*	BLOWS PER FOOT	SAMPLE DEPTH	SAMPLE NUMBER	SAMPLE TYPE			
5	NO WELL INSTALLED						SM	LIGHT BROWN SILTY SAND WITH SOME GRAVEL AND CONCRETE FRAGMENTS GRADING BLACK IN COLOR, MOIST GRADING VERY WET	NON
10		60	3	5	1	■	WST/ CL	WET GREY SILTY CLAY/WASTE (WASTE DRILLING MUD?)	STRONG OILY ODOR
15		80	5	10		□		AS ABOVE (SAMPLE NOT RECOVERED) FREE LIQUID	MILD ODOR

BORING TERMINATED AT 14.5 FEET ON JANUARY 14, 1981
BORING BACKFILLED WITH CEMENT S. PEG

* PHOTOIONIZATION (hnu) DETECTOR
(READINGS IN P.I.D. UNITS)

FIGURE 4
LOG OF BORING MW-2
(ABANDONED)

Dames & Moore

BORING MW-3

SURFACE ELEVATION: 116.58 FEET

DEPTH METERS FEET	WELL CONSTRUCTION	SAMPLE DATA					SOIL TYPE	USCS	SYMBOLS	DESCRIPTION	ODOR
		P.I.D. *	BLOWS PER FOOT	SAMPLE DEPTH	SAMPLE NUMBER	SAMPLE TYPE					
6	11" BOREHOLE						SM			DARK BROWN SANDY SILT, WITH SOME CLAY, BRICK, CONCRETE, GLASS FRAGMENTS	NONE
8	8" STEEL CAULKS	1	34	6	1	■	SM/ML			GRADING TO MOSTLY SILTY SAND AND BRICK FRAGMENTS	NONE
10		1	25	10	2	■	ML			SAMPLE IS MOSTLY BRICK FRAGMENTS GRADING TO DARK BROWN FINE SANDY SILT TO COARSE SILT	NONE
15		7	62	15	3	■	CL			GRADING TO DARK BROWN CLAYEY SILT	NONE
20		7	32	20	4	■	CL			GRADING VERY MOIST	NONE
25		1	37	25	5	■	CL			DARK BROWN MOIST SILTY CLAY GRADING LESS MOIST STIFF SILTY CLAY, ONLY SLIGHTLY MOIST, (APPEARS TO BE NATURAL SOIL)	NONE
30		1	37	30	6	■	CL			GREENISH BROWN CLAYEY SILT	NONE
35		1	37	35	7	■	SC			LIGHT GREY CLEAN FINE TO MEDIUM SAND, TRACE COARSE SAND	NONE
40		1	37	40	8	■	SC			AS ABOVE	NONE
45		1	103	45	9	■	SP			MEDIUM BROWN FINE TO COARSE SAND WITH SILTY CLAY MATRIX MEDIUM BROWN SILTY CLAY TO CLAYEY SILT	NONE
50		1	103	50	10	■	SP			LIGHT GREY CLEAN FINE TO MEDIUM SAND	NONE
55		1	103	55	11	■	SP			LIGHT ORANGISH GREY VERY FINE TO FINE SAND	NONE
60	2" BENTONITE SEAL						SP			GRADING TO MEDIUM TO COARSE SAND WATER AT 50.5 FEET	NONE
65	WATER LEVEL AT 50.5 FT						SP			AS ABOVE	NONE
70	4" SCH 40 PVC SCREEN (0.031" SLOTS)						SP			AS ABOVE	NONE
75	PLASTER PACK 1/2" MONTEREY SAND						SP			AS ABOVE	NONE

TERMINATED BORING AT 74 FEET ON JANUARY 16, 1972

PHOTOIONIZATION (hnu) DETECTOR
(READINGS IN P.I.D. UNITS)

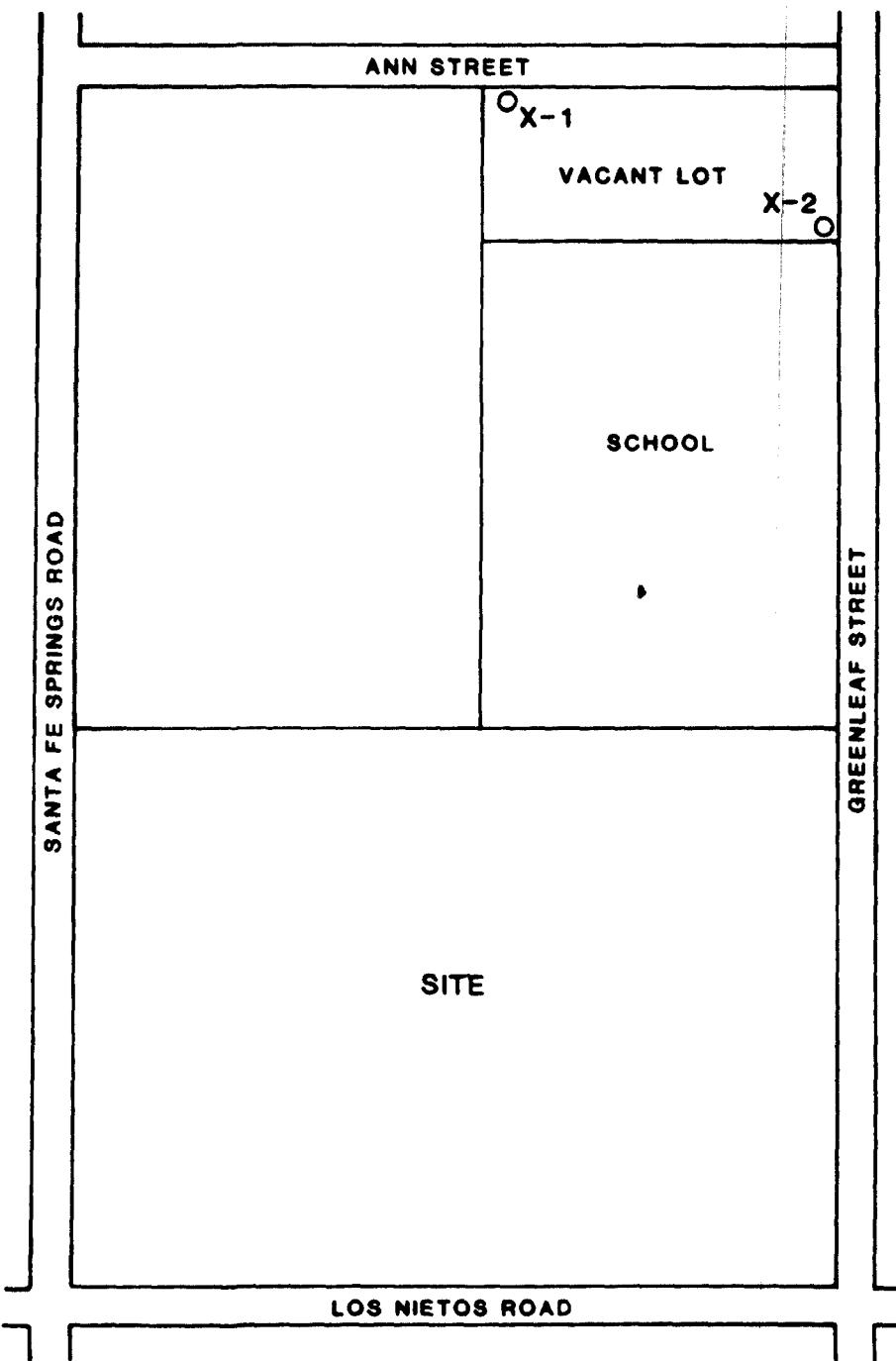
FIGURE 5
LOG OF BORING MW-3

MAJOR DIVISIONS			GRAPH SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
		CLEAN SAND (LITTLE OR NO FINES)		GM	SILTY GRAVELS, GRAVEL-SAND SILTY MIXTURES	
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING NO 4 SIEVE	GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL-SAND CLAY MIXTURES	
		CLEAN SAND (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
	FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50		SM	SILTY SANDS, SAND-SILT MIXTURES	
		SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		SC	CLAYEY SANDS, SAND-CLAY MIXTURES	
		SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY	
		SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	
		SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
		SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MUCACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS	
HIGHLY ORGANIC SOILS				CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	
HIGHLY ORGANIC SOILS				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS.

SOIL CLASSIFICATION CHART

FIGURE 6
UNIFIED SOIL CLASSIFICATION SYSTEM



EXPLANATION:

X-1 O SURFACE SOIL SAMPLE LOCALITY

0 400 FEET
SCALE



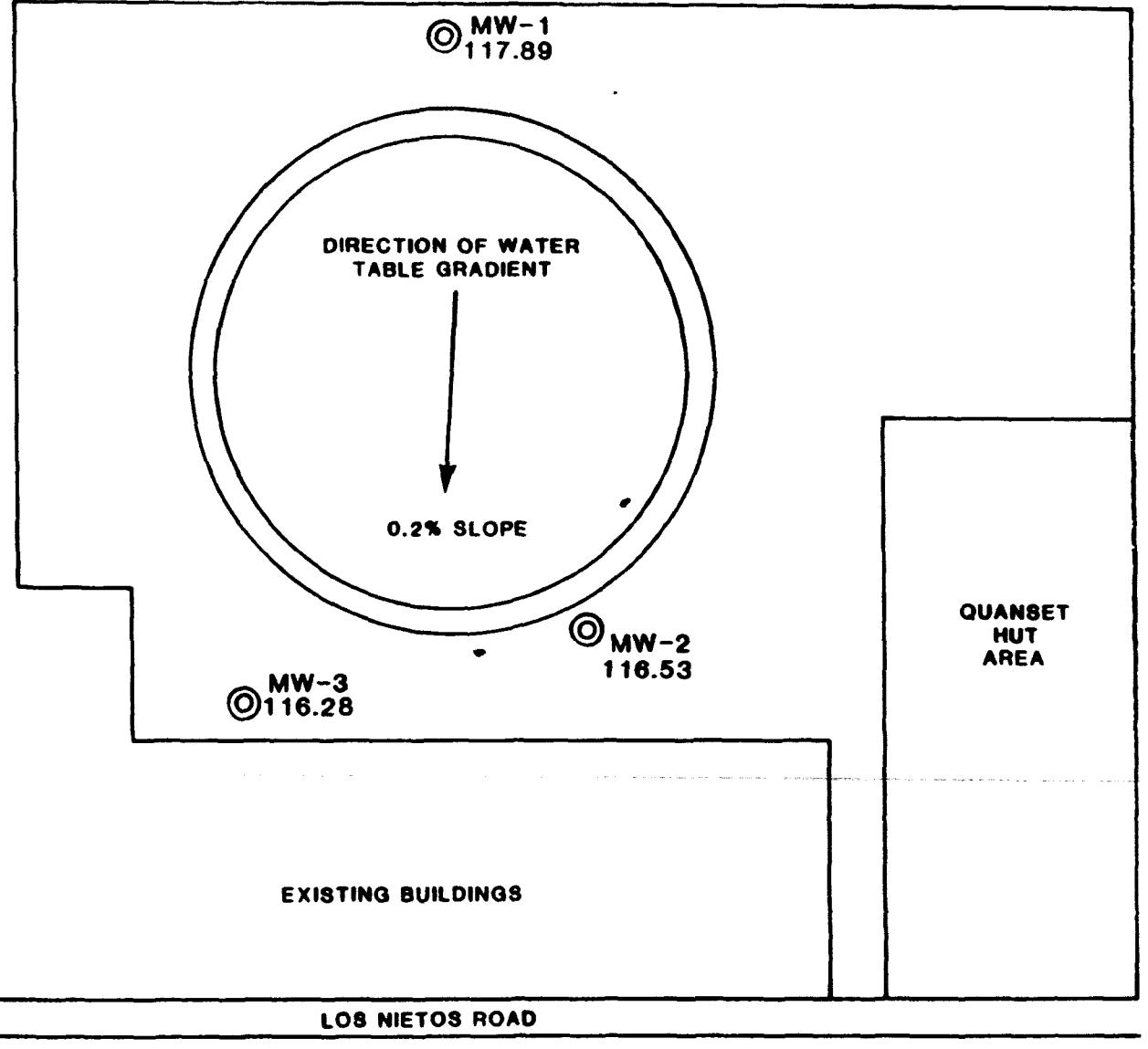
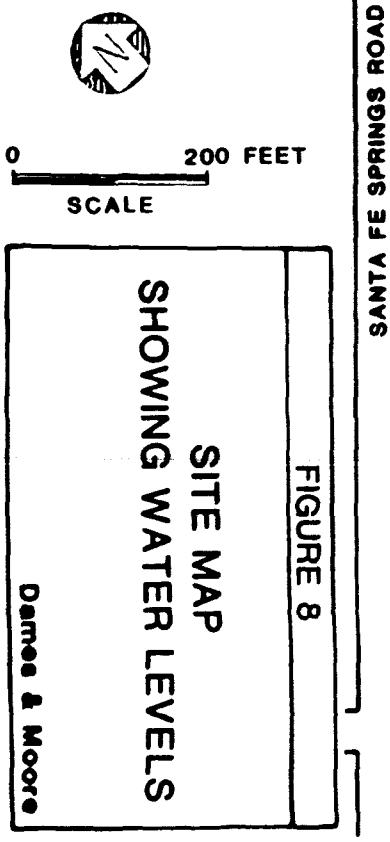
FIGURE 7

OFFSITE SURFACE
SAMPLE LOCALITIES

Dames & Moore

EXPLANATION:

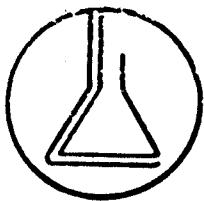
MW-1 MONITORING WELL
◎ SHOWING WATER
117.89 LEVEL (MEASURED
MARCH 4, 1986)



APPENDIX A

ANALYTICAL RESULTS

ANALYSES CONDUCTED BY
CALIFORNIA ANALYTICAL LABORATORIES
SACRAMENTO, CALIFORNIA *



California Analytical Laboratories, Inc.
2544 Industrial Boulevard • West Sacramento, CA 95691 • (916) 372-1393

January 21, 1985
Lab No: 20027
Received: 1/3/85
P.O. # 13262-006-01

Bob Troutman
Dames & Moore
812 Anacapa Street
Santa Barbara, CA 93101

Thirty-three soil samples were received in CAL Labs eight ounce wide mouth glass jars to be analyzed for CAM Metals (TTLC and STLC).

CAL I.D.	Sample I.D.	
20027-1	A-1	0' - 1'
-2	A-2	0' - 1'
-3	A-3	0' - 1'
-4	A-4	0' - 1'
-5	A-5	0' - 1'
-6	B-1	0' - 1'
-7	B-2	0' - 1'
-8	B-3	0' - 1'
-9	B-4	0' - 1'
-10	B-5	0' - 1'
-11	C-1	0' - 1'
-12	C-2	0' - 1'
-13	C-3	0' - 1'
-14	C-4	0' - 1'
-15	C-5	0' - 1'
-16	D-2	0' - 1'
-17	D-3	0' - 1'
-18	D-5	0' - 1'
-19	D-6	0' - 1'
-20	D-7	0' - 1'
-21	E-2	0' - 1'
-22	E-3	0' - 1'
-23	E-4	0' - 1'
-24	E-5	0' - 1'
-25	E-6	0' - 1'
-26	E-7	0' - 1'
-27	F-2	0' - 1'
-28	F-3	0' - 1'
-29	F-4	0' - 1'
-30	F-5	0' - 1'

This report is for the sole and exclusive use of the client to whom it is addressed.
Samples not destroyed in testing are retained a maximum of thirty (30) days unless otherwise requested.

Page 2

-31	F-6	0' - 1'	12/31/84
-32	Z-3	0' - 1'	12/31/84
-33	Z-4	0' - 1'	12/31/84

RESULTS:

See attached data sheets.

Anthony S. Wong
Anthony S. Wong, PhD
Vice President

Mark Masino
Mark Masino
Director of Inorganic Services

jb

California Analytical Laboratories, Inc.

SURFACE SOIL SAMPLES

C.A.M. METALS

Data Sheet

SAMPLE ID: A-1 0-1' 12/31/84CAL ID: 20027-1

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	4.8
Barium	10000	140	100	xxx
Beryllium	75	0.67	0.75	xxx
Cadmium	100	<0.5	1	xxx
*Chromium III/VI	2500/500	23	560/5	xxx
Cobalt	8000	9.2	80	xxx
Copper	2500	29	25	0.42
Lead	1000	171	5	9.6
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	15	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	31	24	<0.5
Zinc	5000	123	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

MW

APPROVED BY

CM/KLDATE 1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: A-2 0-1' 12/31/84

CAL ID: 20027-2

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	87	100	xxx
Beryllium	75	0.52	0.75	xxx
Cadmium	100	<0.5	1	xxx
*Chromium III/VI	2500/500	15	560/5	xxx
Cobalt	8000	7.4	80	xxx
Copper	2500	13	25	xxx
Lead	1000	6.6	5	<1
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	9.7	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	23	24	xxx
Zinc	5000	44	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

APPROVED BY

DATE 1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: A-3 0-1' 12/31/84

CAL ID: 20027-3

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	96	100	xxx
Beryllium	75	0.56	0.75	xxx
Cadmium	100	<0.5	1	xxx
*Chromium III/VI	2500/500	16	560/5	xxx
Cobalt	8000	7.5	80	xxx
Copper	2500	15	25	xxx
Lead	1000	26	5	<1
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	11	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	25	24	<0.5
Zinc	5000	70	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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DATE

1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: A-4 0-1' 12/31/84

CAL ID: 20027-4

<u>Element</u>	<u>Total (TTLC)</u> <u>Regulatory Values</u> <u>(mg/Kg wet wt.)</u>	<u>Total</u> <u>Found</u> <u>(mg/Kg)</u>	<u>Leachable</u> <u>Regulatory Values</u> <u>(mg/L in leachate)</u>	<u>Leachable</u> <u>Found</u> <u>(mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	150	100	4.2
Beryllium	75	0.56	0.75	xxx
Cadmium	100	0.55	1	xxx
*Chromium III/VI	2500/500	18	560/5	xxx
Cobalt	8000	7.7	80	xxx
Copper	2500	21	25	xxx
Lead	1000	72	5	2.9
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	11	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	25	24	<0.5
Zinc	5000	140	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

APPROVED BY

DATE 1.22.85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: A-5 0-1' 12/31/84

CAL ID: 20027-5

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	280	100	5.1
Beryllium	75	0.60	0.75	xxx
Cadmium	100	0.56	1	xxx
*Chromium III/VI	2500/500	20	560/5	xxx
Cobalt	8000	8.3	80	xxx
Copper	2500	32	25	0.60
Lead	1000	56	5	2.4
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	15	20	xxx
Selenium	100	<1.0	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	27	24	<0.5
Zinc	5000	88	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

APPROVED BY

DATE

1-27-85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: B-1 0-1' 12/31/84

CAL ID: 20027-6

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	170	100	6.2
Beryllium	75	0.51	0.75	xxx
Cadmium	100	<0.5	1	xxx
*Chromium III/VI	2500/500	17	560/5	xxx
Cobalt	8000	7.9	80	xxx
Copper	2500	18	25	xxx
Lead	1000	82	5	4.7
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	12	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	24	24	<0.5
Zinc	5000	84	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

APPROVED BY

DATE

12/28/84

California Analytical Laboratories, Inc.

C.A.M. METALS

Data Sheet

SAMPLE ID: B-2 0-1' 12/31/84CAL ID: 20027-7

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	160	100	4.6
Beryllium	75	0.72	0.75	xxx
Cadmium	100	0.86	1	xxx
*Chromium III/VI	2500/500	20	560/5	xxx
Cobalt	8000	9.0	80	xxx
Copper	2500	30	25	1.1
Lead	1000	36	5	2.7
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	19	20	xxx
Selenium	100	<1.0	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	35	24	0.54
Zinc	5000	68	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

W.H. Miller

APPROVED BY

W.H. Miller

DATE

1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS

Data Sheet

SAMPLE ID: B-3 0-1' 12/31/84CAL ID: 20027-8

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	18	5	<4
Antimony	500	<5	15	xxx
Barium	10000	180	100	3.6
Beryllium	75	<0.5	0.75	xxx
Cadmium	100	0.66	1	xxx
*Chromium III/VI	2500/500	16	560/5	xxx
Cobalt	8000	6.9	80	xxx
Copper	2500	22	25	xxx
Lead	1000	48	5	1.1
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	8.8	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	22	24	xxx
Zinc	5000	83	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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DATE

1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: B-4 0-1' 12/31/84

CAL ID: 20027-9

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	16	5	<4
Antimony	500	<5	15	xxx
Barium	10000	97	100	xxx
Beryllium	75	0.50	0.75	xxx
Cadmium	100	0.50	1	xxx
*Chromium III/VI	2500/500	14	560/5	xxx
Cobalt	8000	6.4	80	xxx
Copper	2500	15	25	xxx
Lead	1000	25	5	<1
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	8.8	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	22	24	xxx
Zinc	5000	69	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: B-5 0-1' 12/31/84

CAL ID: 20027-10

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	29	5	<4
Antimony	500	<5	15	xxx
Barium	10000	100	100	2.1
Beryllium	75	0.52	0.75	xxx
Cadmium	100	0.52	1	xxx
*Chromium III/VI	2500/500	15	560/5	xxx
Cobalt	8000	5.8	80	xxx
Copper	2500	19	25	xxx
Lead	1000	24	5	<1
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	11	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	23	24	xxx
Zinc	5000	85	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY H
APPROVED BY MalCw DATE _____

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: C-1 0-1' 2/31/84

CAL ID: 20027-11

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	220	100	6.1
Beryllium	75	0.70	0.75	xxx
Cadmium	100	<0.5	1	xxx
*Chromium III/VI	2500/500	24	560/5	xxx
Cobalt	8000	10	80	xxx
Copper	2500	28	25	<0.2
Lead	1000	92	5	5.1
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	16	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	32	24	0.66
Zinc	5000	130	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS

Data Sheet

SAMPLE ID: C-2 0-1' 12/31/84CAL ID: 20027-12

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	310	100	6.2
Beryllium	75	0.58	0.75	xxx
Cadmium	100	0.69	1	xxx
*Chromium III/VI	2500/500	20	560/5	xxx
Cobalt	8000	7.2	80	xxx
Copper	2500	21	25	xxx
Lead	1000	57	5	1.9
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	14	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	28	24	0.51
Zinc	5000	58	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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1-22-85

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C.A.M. METALS

Data Sheet

SAMPLE ID: C-3 0-1' 12/31/84CAL ID: 20027-13

<u>Element</u>	<u>Total (TTL)</u> <u>Regulatory Values</u> <u>(mg/Kg wet wt.)</u>	<u>Total</u> <u>Found</u> <u>(mg/Kg)</u>	<u>Leachable (STLC)</u> <u>Regulatory Values</u> <u>(mg/L in leachate)</u>	<u>Leachable</u> <u>Found</u> <u>(mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	140	100	2.6
Beryllium	75	0.58	0.75	xxx
Cadmium	100	0.64	1	xxx
*Chromium III/VI	2500/500	18	560/5	xxx
Cobalt	8000	8.3	80	xxx
Copper	2500	29	25	0.23
Lead	1000	82	5	3.2
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	16	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	28	24	<0.5
Zinc	5000	80	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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C.A.M. METALS
Data Sheet

SAMPLE ID: C-4 0-1' 12/31/84

CAL ID: 20027-14

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	130	100	3.3
Beryllium	75	0.59	0.75	xxx
Cadmium	100	<0.5	1	xxx
*Chromium III/VI	2500/500	18	560/5	xxx
Cobalt	8000	8.9	80	xxx
Copper	2500	22	25	xxx
Lead	1000	11	5	<1
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	14	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	29	24	<0.5
Zinc	5000	48	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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APPROVED BY

The image shows two handwritten signatures. The first signature, above the date, appears to be 'C.J.' or 'C.J. #'. The second signature, below the date, appears to be 'T.L.' or 'T.L. #'. Both signatures are written in black ink on a white background.

DATE 1-27-87

California Analytical Laboratories, Inc.

C.A.M. METALS

Data Sheet

SAMPLE ID: C-5 0-1' 12/31/84CAL ID: 20027-15

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	150	100	6.2
Beryllium	75	0.77	0.75	<0.2
Cadmium	100	1.3	1	<0.1
*Chromium III/VI	2500/500	20	560/5	xxx
Cobalt	8000	9.2	80	xxx
Copper	2500	27	25	0.28
Lead	1000	57	5	3.3
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	22	20	0.60
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	19	24	xxx
Zinc	5000	110	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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DATE

1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: D-2 0-1' 12/31/84

CAL ID: 20027-16

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	150	100	2.1
Beryllium	75	<0.5	0.75	xxx
Cadmium	100	0.62	1	xxx
*Chromium III/VI	2500/500	17	560/5	xxx
Cobalt	8000	4.8	80	xxx
Copper	2500	54	25	2.5
Lead	1000	130	5	<1
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	10	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	19	24	xxx
Zinc	5000	110	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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CM

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1/26/85

California Analytical Laboratories, Inc.

C.A.M. METALS

Data Sheet

SAMPLE ID: D-3 0-1' 12/31/84CAL ID: 20027-17

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	140	100	2.1
Beryllium	75	0.50	0.75	xxx
Cadmium	100	0.58	1	xxx
*Chromium III/VI	2500/500	16	560/5	xxx
Cobalt	8000	7.7	80	xxx
Copper	2500	46	25	1.0
Lead	1000	19	5	<1
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	15	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	24	24	<0.5
Zinc	5000	79	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: D-5 0-1' 12/31/84

CAL ID: 20027-18

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	180	100	3.4
Beryllium	75	0.51	0.75	xxx
Cadmium	100	0.58	1	xxx
*Chromium III/VI	2500/500	18	560/5	xxx
Cobalt	8000	7.1	80	xxx
Copper	2500	39	25	0.80
Lead	1000	110	5	6.2
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	13	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	25	24	<0.5
Zinc	5000	130	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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DATE 1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: D-6 0-1' 12/31/84

CAL ID: 20027-19

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	120	100	3.2
Beryllium	75	0.50	0.75	xxx
Cadmium	100	0.52	1	xxx
*Chromium III/VI	2500/500	14	560/5	xxx
Cobalt	8000	6.9	80	xxx
Copper	2500	26	25	<1
Lead	1000	41	5	1.2
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	14	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	26	24	<0.5
Zinc	5000	56	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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C.A.M. METALS
Data Sheet

SAMPLE ID: D-7 0-1' 12/31/84

CAL ID: 20027-20

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	200	100	3.9
Beryllium	75	0.52	0.75	xxx
Cadmium	100	0.83	1	xxx
*Chromium III/VI	2500/500	19	560/5	xxx
Cobalt	8000	7.3	80	xxx
Copper	2500	36	25	1.2
Lead	1000	86	5	2.8
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	16	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	27	24	<0.5
Zinc	5000	130	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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The image shows two handwritten signatures. The first signature, above the date, appears to be 'J. Smith'. The second signature, below the date, appears to be 'C. A. M. METALS' or similar.

DATE 1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: E-2 0-1' 12/31/84

CAL ID: 20027-21

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	160	100	5.2
Beryllium	75	0.77	0.75	<0.05
Cadmium	100	2.4	1	0.10
*Chromium III/VI	2500/500	20	560/5	xxx
Cobalt	8000	8.0	80	xxx
Copper	2500	25	25	<0.1
Lead	1000	35	5	0.47
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	27	20	0.82
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	41	24	0.60
Zinc	5000	74	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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APPROVED BY

John
John DATE 1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS

Data Sheet

SAMPLE ID: E-3 0-1' 12/31/84CAL ID: 20027-22

<u>Element</u>	<u>Total (TTL)</u> <u>Regulatory Values</u> <u>(mg/Kg wet wt.)</u>	<u>Total</u> <u>Found</u> <u>(mg/Kg)</u>	<u>Leachable (STLC)</u> <u>Regulatory Values</u> <u>(mg/L in leachate)</u>	<u>Leachable</u> <u>Found</u> <u>(mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	410	100	1.5
Beryllium	75	0.56	0.75	xxx
Cadmium	100	<0.5	1	xxx
*Chromium III/VI	2500/500	19	560/5	xxx
Cobalt	8000	8.1	80	xxx
Copper	2500	45	25	2.2
Lead	1000	80	5	0.28
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	13	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	27	24	0.50
Zinc	5000	120	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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C.A.M. METALS

Data Sheet

SAMPLE ID: E-4 0-1' 12/31/84CAL ID: 20027-23

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	83	100	xxx
Beryllium	75	0.50	0.75	xxx
Cadmium	100	<0.5	1	xxx
*Chromium III/VI	2500/500	12	560/5	xxx
Cobalt	8000	6.3	80	xxx
Copper	2500	12	25	xxx
Lead	1000	13	5	0.66
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	10	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	21	24	xxx
Zinc	5000	34	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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DATE 1-27-85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: E-5 0-1' 12/31/84

CAL ID: 20027-24

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	410	100	3.8
Beryllium	75	<0.5	0.75	xxx
Cadmium	100	0.54	1	xxx
*Chromium III/VI	2500/500	25	560/5	xxx
Cobalt	8000	6.6	80	xxx
Copper	2500	130	25	8.8
Lead	1000	130	5	6.1
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	15	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	23	24	xxx
Zinc	5000	130	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY
APPROVED BY



J. M. G. DATE 1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: E-6 0-1' 12/31/84

CAL ID: 20027-25

<u>Element</u>	<u>Total (TTL)</u> <u>Regulatory Values</u> <u>(mg/Kg wet wt.)</u>	<u>Total</u> <u>Found</u> <u>(mg/Kg)</u>	<u>Leachable (STLC)</u> <u>Regulatory Values</u> <u>(mg/L in leachate)</u>	<u>Leachable</u> <u>Found</u> <u>(mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	290	100	5.2
Beryllium	75	<0.5	0.75	xxx
Cadmium	100	1.1	1	0.068
*Chromium III/VI	2500/500	18	560/5	xxx
Cobalt	8000	5.7	80	xxx
Copper	2500	30	25	1.4
Lead	1000	130	5	14
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	16	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	22	24	xxx
Zinc	5000	100	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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DATE

1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: E-7 0-1' 12/31/84

CAL ID: 20027-26

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	220	100	2.7
Beryllium	75	0.58	0.75	xxx
Cadmium	100	1.0	1	0.06
*Chromium III/VI	2500/500	39	560/5	xxx
Cobalt	8000	7.8	80	xxx
Copper	2500	29	25	0.52
Lead	1000	140	5	2.1
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	16	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	29	24	0.60
Zinc	5000	89	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

APPROVED BY

DATE

1-27-85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: F-2 0-1' 12/31/84

CAL ID: 20027-27

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	900	100	1.4
Beryllium	75	0.60	0.75	xxx
Cadmium	100	0.52	1	xxx
*Chromium III/VI	2500/500	17	560/5	xxx
Cobalt	8000	8.2	80	xxx
Copper	2500	24	25	xxx
Lead	1000	20	5	0.13
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	17	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	29	24	0.68
Zinc	5000	56	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

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DATE

1-22-87

California Analytical Laboratories, Inc.

C.A.M. METALS

Data Sheet

SAMPLE ID: F-3 0-1' 12/31/84CAL ID: 20027-28

<u>Element</u>	<u>Total (TTL)</u> <u>Regulatory Values</u> <u>(mg/Kg wet wt.)</u>	<u>Total</u> <u>Found</u> <u>(mg/Kg)</u>	<u>Leachable</u> <u>Regulatory Values</u> <u>(mg/L in leachate)</u>	<u>Leachable</u> <u>Found</u> <u>(mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	280	100	3.8
Beryllium	75	0.60	0.75	xxx
Cadmium	100	0.66	1	xxx
*Chromium III/VI	2500/500	21	560/5	xxx
Cobalt	8000	8.8	80	xxx
Copper	2500	120	25	2.2
Lead	1000	84	5	2.1
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	18	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	28	24	0.55
Zinc	5000	150	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

APPROVED BY

DATE

1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: F-4 0-1' 12/31/84

CAL ID: 20027-29

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	140	100	5.6
Beryllium	75	0.76	0.75	<0.05
Cadmium	100	<0.5	1	xxx
*Chromium III/VI	2500/500	23	560/5	xxx
Cobalt	8000	11	80	xxx
Copper	2500	20	25	xxx
Lead	1000	9.8	5	0.16
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	16	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	37	24	0.74
Zinc	5000	50	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

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DATE 1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS

Data Sheet

SAMPLE ID: F-5 0-1' 12/31/84CAL ID: 20027-30

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	63	100	xxx
Beryllium	75	<0.5	0.75	xxx
Cadmium	100	<0.5	1	xxx
*Chromium III/VI	2500/500	12	560/5	xxx
Cobalt	8000	4.8	80	xxx
Copper	2500	26	25	0.67
Lead	1000	60	5	2.3
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	9.4	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	19	24	xxx
Zinc	5000	64	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

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DATE 1-22-85

California Analytical Laboratories, Inc.

C.A.M. METALS
Data Sheet

SAMPLE ID: F-6 0-1' 12/31/84

CAL ID: 20027-31

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	110	100	3.6
Beryllium	75	0.61	0.75	xxx
Cadmium	100	1.5	1	0.12
*Chromium III/VI	2500/500	19	560/5	xxx
Cobalt	8000	8.4	80	xxx
Copper	2500	130	25	14
Lead	1000	62	5	2.8
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	17	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	30	24	<0.5
Zinc	5000	190	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY
APPROVED BY

DATE 1-27-85

California Analytical Laboratories, Inc.

EEA Method 214 (EXPANDED)
Data sheet

CLIENT ID: BORING F-6

CAL LAB NO: 20229-1

<u>PPN</u>	<u>VOLATILES</u>	<u>ug/Kg</u>
2V	acrolein	<1000
3V	acrylonitrile	<1000
4V	benzene	<200
6V	carbon tetrachloride	<200
7V	chlorobenzene	<200
10V	1,2-dichloroethane	<200
11V	1,1,1-trichloroethane	<200
13V	1,1-dichloroethane	<200
14V	1,1,2-trichloroethane	<200
15V	1,1,2,2-tetrachloroethane	<200
16V	chloroethane	<200
19V	2-chloroethylvinyl ether	<1000
23V	chloroform	<200
29V	1,1-dichloroethene	<200
30V	trans-1,2-dichloroethene	<200
32V	1,2-dichloropropane	<200
33V	1,3-dichloropropene	<200
38V	ethylbenzene	<500
44V	methylene chloride	<500
45V	chloromethane	<200
46V	bromomethane	<200
47V	bromoform	<200
48V	bromodichloromethane	<200
49V	fluorotrichloromethane	<200
50V	dichlorodifluoromethane	<200
51V	chlorodibromomethane	<200
85V	tetrachloroethene	<200
86V	toluene	<200
87V	trichloroethene	<200
88V	vinyl chloride	<200

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

CL13	acetone	<500
CL14	2-butanone	<500
CL15	carbonyl sulfide	<200
CL16	2-hexanone	<500
CL17	4-methyl-2-pentanone	<500
CL18	styrene	<200
CL19	vinyl acetate	<1000
CL20	total xylenes	<200

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: DJ Brooks

Approved by: MJM

Date: 2/26/87

EPA METHOD 625 PRIORITY POLLUTANTS
Data Sheet

CLIENT ID: BORING F-6

CAL LAB No: 20229-1

<u>PP#</u>	<u>ACID COMPOUNDS</u>	<u>ug/Kg</u>	<u>PP#</u>	<u>BASE/NEUTRAL COMPOUNDS</u>	<u>ug/Kg</u>
21A	2,4,6-trichlorophenol	<200	40B	4-chlorophenyl phenyl ether	<200
22A	p-chloro-m-cresol	<200	41B	4-bromophenyl phenyl ether	<200
24A	2-chlorophenol	<200	42B	bis(2-chloroisopropyl) ether	<400
31A	2,4-dichlorophenol	<200	43B	bis(2-chloroethoxy) methane	<400
36A	2,4-dimethylphenol	<200	52B	hexachlorobutadiene	<200
57A	2-nitrophenol	<400	53B	hexachlorocyclopentadiene	<200
58A	4-nitrophenol	<1000	54B	isophorone	<200
59A	2,4-dinitrophenol	<1000	55B	naphthalene	<200
60A	4,6-dinitro-o-cresol	<400	56B	nitrobenzene	<200
64A	pentachlorophenol	<200	62B	N-nitrosodiphenylamine	<200
65A	phenol	<200	63B	N-nitrosodipropylamine	<200
	<u>BASE/NEUTRAL COMPOUNDS</u>		66B	bis(2-ethylhexyl)phthalate	<200
1B	acenaphthene	<200	67B	benzyl butyl phthalate	<200
5B	benzidine	<800	68B	di-n-butyl phthalate	<200
8B	1,2,4-trichlorobenzene	<200	69B	di-n-octyl phthalate	<200
9B	hexachlorobenzene	<200	70B	diethyl phthalate	<200
12B	hexachloroethane	<200	71B	dimethyl phthalate	<200
18B	bis(2-chloroethyl)ether	<200	72B	benzo(a)anthracene	<200
20B	2-chloronaphthalene	<200	73B	benzo(a)pyrene	<400
25B	1,2-dichlorobenzene	<200	74B	benzo(b)fluoranthene	<400*
26B	1,3-dichlorobenzene	<200	75B	benzo(k)fluoranthene	<400*
27B	1,4-dichlorobenzene	<200	76B	chrysene	<400
28B	3,3'-dichlorobenzidine	<400	77B	acenaphthylene	<200
35B	2,4-dinitrotoluene	<400	78B	anthracene	<200
36B	2,6-dinitrotoluene	<400	79B	benzo(ghi)perylene	<400
37B	1,2-diphenylhydrazine (as azobenzene)	<400	80B	fluorene	<200
39B	fluoranthene	<200	81B	phenanthrene	<200
			82B	dibenzo(a,h)anthracene	<400
			83B	indeno(1,2,3-cd)pyrene	<400
			84B	pyrene	<200
1.	aldrin	<500	8.	dieldrin	<500
2.	B-BHC	<500	9.	endosulfan sulfate	<1000
3.	D-BHC	<500	10.	endrin aldehyde	<1000
4.	chlordane	<5000	11.	heptachlor	<500
5.	4,4'-DDD	<500	12.	heptachlor epoxide	<500
6.	4,4'-DDE	<500	13.	PCB	<5000
7.	4,4'-DDT	<500	14.	toxaphene	<10000

* - compounds co-elute - analysed as a single compound

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: D. Brooks

Approved by: M.W.Y. Date: 2/26/87

C.A.M. METALS

Data Sheet

SAMPLE ID: Z-3 0-1' 12/31/84CAL ID: 20027-32

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	87	100	xxx
Beryllium	75	0.63	0.75	xxx
Cadmium	100	<0.5	1	xxx
*Chromium III/VI	2500/500	16	560/5	xxx
Cobalt	8000	8.0	80	xxx
Copper	2500	13	25	xxx
Lead	1000	7.6	5	0.23
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	9.6	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	28	24	<0.5
Zinc	5000	36	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

APPROVED BY

At
Capillary

DATE

1-22-85

C.A.M. METALS

Data Sheet

SAMPLE ID: Z-4 0-1' 12/31/84CAL ID: 20027-33

<u>Element</u>	<u>Total (TTLC)</u> <u>Regulatory Values</u> <u>(mg/Kg wet wt.)</u>	<u>Total</u> <u>Found</u> <u>(mg/Kg)</u>	<u>Leachable (STLC)</u> <u>Regulatory Values</u> <u>(mg/L in leachate)</u>	<u>Leachable</u> <u>Found</u> <u>(mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	94	100	xxx
Beryllium	75	0.52	0.75	xxx
Cadmium	100	<0.5	1	xxx
*Chromium III/VI	2500/500	15	560/5	xxx
Cobalt	8000	7.2	80	xxx
Copper	2500	13	25	xxx
Lead	1000	28	5	0.97
Mercury	20	xxx	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	9.4	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	24	24	xxx
Zinc	5000	100	250	<0.5

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

APPROVED BY

The image shows two handwritten signatures. The first signature, above the date, appears to be 'John' or 'J.W.'. The second signature, below the date, appears to be 'Cynthia'.

DATE 1-22-85

California Analytical Laboratories, Inc.

EPA METHOD 624 (EXPANDED)
Data sheet

CLIENT ID: BORING Z-4

CAL LAB NO: 20229-2

<u>PP#</u>	<u>VOLATILES</u>	<u>ug/Kg</u>
2V	acrolein	<1000
3V	acrylonitrile	<1000
4V	benzene	<200
6V	carbon tetrachloride	<200
7V	chlorobenzene	<200
10V	1,2-dichloroethane	<200
11V	1,1,1-trichloroethane	<200
13V	1,1-dichloroethane	<200
14V	1,1,2-trichloroethane	<200
15V	1,1,2,2-tetrachloroethane	<200
16V	chloroethane	<200
19V	2-chloroethylvinyl ether	<1000
23V	chloroform	<200
29V	1,1-dichloroethene	<200
30V	trans-1,2-dichloroethene	<200
32V	1,2-dichloropropane	<200
33V	1,3-dichloropropene	<200
38V	ethylbenzene	<500
44V	methylene chloride	<500
45V	chloromethane	<200
46V	bromomethane	<200
47V	bromoform	<200
48V	bromodichloromethane	<200
49V	fluorotrichloromethane	<200
50V	dichlorodifluoromethane	<200
51V	chlorocibromomethane	<200
85V	tetrachloroethene	<200
86V	toluene	<200
87V	trichloroethene	<200
88V	vinyl chloride	<200

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

CL13	acetone	<500
CL14	2-butanone	<500
CL15	carbonyl sulfide	<200
CL16	2-hexanone	<500
CL17	4-methyl-2-pentanone	<500
CL18	styrene	<200
CL19	vinyl acetate	<1000
CL20	total xylenes	<200

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: D. Brooks

Approved by: M. P. Miller

Date: 2/26/85

EPA METHOD 625 PRIORITY POLLUTANTS
Data Sheet

CLIENT ID: BORING Z-4

CAL LAB No: 20229-2

<u>PP#</u>	<u>ACID COMPOUNDS</u>	<u>ug/Kg</u>	<u>PP#</u>	<u>BASE/NEUTRAL COMPOUNDS</u>	<u>ug/Kg</u>
21A	2,4,6-trichlorophenol	<200	40B	4-chlorophenyl phenyl ether	<200
22A	p-chloro-m-cresol	<200	41B	4-bromophenyl phenyl ether	<200
24A	2-chlorophenol	<200	42B	bis(2-chloroisopropyl) ether	<400
31A	2,4-dichlorophenol	<200	43B	bis(2-chloroethoxy) methane	<400
34A	2,4-dimethylphenol	<200	52B	hexachlorobutadiene	<200
57A	2-nitrophenol	<400	53B	hexachlorocyclopentadiene	<200
58A	4-nitrophenol	<1000	54B	isophorone	<200
59A	2,4-dinitrophenol	<1000	55B	naphthalene	<200
60A	4,6-dinitro-o-cresol	<400	56B	nitrobenzene	<200
64A	pentachlorophenol	<200	62B	N-nitrosodiphenylamine	<200
65A	phenol	<200	63B	N-nitrosodipropylamine	<200
	<u>BASE/NEUTRAL COMPOUNDS</u>		66B	bis(2-ethylhexyl)phthalate	<200
18	acenaphthene	<200	67B	benzyl butyl phthalate	<200
58	benzidine	<200	68B	di-n-butyl phthalate	<200
88	1,2,4-trichlorobenzene	<800	69B	di-n-octyl phthalate	<200
98	hexachlorobenzene	<200	70B	diethyl phthalate	<200
128	hexachloroethane	<200	71B	dimethyl phthalate	<200
188	bis(2-chloroethyl)ether	<200	72B	benzo(a)anthracene	<200
208	2-chloronaphthalene	<200	73B	benzo(a)pyrene	<400
258	1,2-dichlorobenzene	<200	74B	benzo(b)fluoranthene	<400*
268	1,3-dichlorobenzene	<200	75B	benzo(k)fluoranthene	<400*
278	1,4-dichlorobenzene	<200	76B	chrysene	<400
288	3,3'-dichlorobenzidine	<400	77B	acenaphthylene	<200
358	2,4-dinitrotoluene	<400	78B	anthracene	<200
368	2,6-dinitrotoluene	<400	79B	benzo(ghi)perylene	<400
378	1,2-diphenylhydrazine (as azobenzene)	<400	80B	fluorene	<200
398	fluoranthene	<200	81B	phenanthrene	<200
1.	aldrin	<500	82B	dibenzo(a,h)anthracene	<400
2.	B-BHC	<500	83B	indeno(1,2,3-cd)pyrene	<400
3.	D-BHC	<500	84B	pyrene	<200
4.	chlordane	<5000	8.	dieldrin	<500
5.	4,4'-DDD	<500	9.	endosulfan sulfate	<1000
6.	4,4'-DDE	<500	10.	endrin aldehyde	<1000
7.	4,4'-DDT	<500	11.	heptachlor	<500
		<500	12.	heptachlor epoxide	<500
		<500	13.	PCB	<5000
		<500	14.	toxaphene	<10000

* - compounds co-elute - analysed as a single compound
The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: T. Brooks

Approved by: K.E.A./ Date: 2/26/87

C.A.M. METALS

Data Sheet

SAMPLE ID: X-1 1/22/85CAL ID: 20156-4

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/Kg)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	100	100	xxx
Beryllium	75	0.69	0.75	xxx
Cadmium	100	<0.5	1	xxx
*Chromium III/VI	2500/500	26	560/5	xxx
Cobalt	8000	11	80	xxx
Copper	2500	19	25	xxx
Lead	1000	8.4	5	xxx
Mercury	20	<0.1	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	14	20	xxx
Selenium	100	<1	1	xxx
Silver	500	<2	5	xxx
Thallium	700	7.7	7	xxx
Vanadium	2400	35	24	xxx
Zinc	5000	49	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

J. J. De

APPROVED BY

J. J. De

DATE

2/19/85

California Analytical Laboratories, Inc.

C.A.M. METALS

Data Sheet

SAMPLE ID: X-2 1/22/85CAL ID: 20156-5

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/Kg)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<5	5	xxx
Antimony	500	<5	15	xxx
Barium	10000	92	100	xxx
Beryllium	75	0.50	0.75	xxx
Cadmium	100	0.64	1	xxx
*Chromium III/VI	2500/500	18/<5	560/5	xxx
Cobalt	8000	8.0	80	xxx
Copper	2500	18	25	xxx
Lead	1000	47	5	xxx
Mercury	20	<0.1	0.2	xxx
Molybdenum	3500	<10	350	xxx
Nickel	2000	12	20	xxx
Selenium	100	1.9	1	xxx
Silver	500	<2	5	xxx
Thallium	700	6.2	7	xxx
Vanadium	2400	26	24	xxx
Zinc	5000	88	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY

100

APPROVED BY

100

DATE

~1/19/85

WELL BORING SOIL SAMPLES

EPA METHOD 624 (EXPANDED)
Data sheet

CLIENT ID: mw-2A 5' CAL LAB NO: 20336-1

PP#	VOLATILES	<u>ug/Kg</u>
2V	acrolein	<1000
3V	acrylonitrile	<1000
4V	benzene	<200
6V	carbon tetrachloride	<200
7V	chlorobenzene	<200
10V	1,2-dichloroethane	<200
11V	1,1,1-trichloroethane	<200
13V	1,1-dichloroethane	<200
14V	1,1,2-trichloroethane	<200
15V	1,1,2,2-tetrachloroethane	<200
16V	chloroethane	<200
19V	2-chloroethylvinyl ether	<1000
23V	chloroform	<200
29V	1,1-dichloroethene	<200
30V	trans-1,2-dichloroethene	<200
32V	1,2-dichloropropane	<200
33V	1,3-dichloropropene	<200
38V	ethylbenzene	2000
44V	methylene chloride	<500
45V	chloromethane	<200
46V	bromomethane	<200
47V	bromoform	<200
48V	bromodichloromethane	<200
49V	fluorotrichloromethane	<200
50V	dichlorodifluoromethane	<200
51V	chlorodibromomethane	<200
85V	tetrachloroethene	<200
86V	toluene	<200
87V	trichloroethene	<200
88V	v vinyl chloride	<200

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

CL13	acetone	<500
CL14	2-butanone	<500
CL15	carbonyl sulfide	<200
CL16	2-hexanone	<500
CL17	4-methyl-2-pentanone	<500
CL18	styrene	<200
CL19	vinyl acetate	<1000
CL20	total xylenes	820

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: D Brooks
Approved by: M. J. H.

Date: 3/4/85

EPA METHOD 625 PRIORITY POLLUTANTS
Data Sheet

CLIENT ID: MW-2A 5'

CAL LAB No: 20336-1

<u>PP#</u>	<u>ACID COMPOUNDS</u>	<u>ug/Kg</u>	<u>PP#</u>	<u>BASE/NEUTRAL COMPOUNDS</u>	<u>ug/Kg</u>
21A	2,4,6-trichlorophenol	<2000	40B	4-chlorophenyl phenyl ether	<2000
22A	p-chloro-m-cresol	<2000	41B	4-bromophenyl phenyl ether	<2000
24A	2-chlorophenol	<2000	42B	bis(2-chloroisopropyl) ether	<4000
31A	2,4-dichlorophenol	<2000	43B	bis(2-chloroethoxy) methane	<4000
34A	2,4-dimethylphenol	<2000	52B	hexachlorobutadiene	<2000
57A	2-nitrophenol	<4000	53B	hexachlorocyclopentadiene	<2000
58A	4-nitrophenol	<10000	54B	isophorone	<2000
59A	2,4-dinitrophenol	<10000	55B	naphthalene	4900
60A	4,6-dinitro-o-cresol	<4000	56B	nitrobenzene	<2000
64A	pentachlorophenol	<2000	62B	N-nitrosodiphenylamine	<2000
65A	phenol	<2000	63B	N-nitrosodipropylamine	<2000
	<u>BASE/NEUTRAL COMPOUNDS</u>		66B	bis(2-ethylhexyl)phthalate	<2000
18	acenaphthene	<2000	67B	benzyl butyl phthalate	<2000
58	benzidine	<8000	68B	di-n-butyl phthalate	<2000
88	1,2,4-trichlorobenzene	<2000	69B	di-n-octyl phthalate	<2000
98	hexachlorobenzene	<2000	70B	diethyl phthalate	<2000
12B	hexachloroethane	<2000	71B	dimethyl phthalate	<2000
18B	bis(2-chloroethyl)ether	<2000	72B	benzo(a)anthracene	<2000
20B	2-chloronaphthalene	<2000	73B	benzo(a)pyrene	1100
25B	1,2-dichlorobenzene	<2000	74B	benzo(b)fluoranthene	<4000*
26B	1,3-dichlorobenzene	<2000	75B	benzo(k)fluoranthene	<4000*
27B	1,4-dichlorobenzene	<2000	76B	chrysene	<4000
28B	3,3'-dichlorobenzidine	<4000	77B	acenaphthylene	<2000
35B	2,4-dinitrotoluene	<4000	78B	anthracene	<2000
36B	2,6-dinitrotoluene	<4000	79B	benzo(ghi)perylene	<4000
37B	1,2-diphenylhydrazine (as azobenzene)	<4000	80B	fluorene	<2000
39B	fluoranthene	1300	81B	phenanthrene	2900
			82B	dibenzo(a,h)anthracene	<4000
			83B	indeno(1,2,3-cd)pyrene	<4000
			84B	pyrene	<2000
1.	aldrin	<5000	8.	dieldrin	<5000
2.	B-BHC	<5000	9.	endosulfan sulfate	<10000
3.	D-BHC	<5000	10.	endrin aldehyde	<10000
4.	chlor dane	<50000	11.	heptachlor	<5000
5.	4,4'-DDD	<5000	12.	heptachlor epoxide	<5000
6.	4,4'-DDE	<5000	13.	PCB	<50000
7.	4,4'-DDT	<5000	14.	toxaphene	<100000

* - compounds co-elute - analysed as a single compound
The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: D. Brock

Approved by: M. J. J. Date: 3/4/82

EPA METHOD 624 (EXPANDED)
Data sheet

CLIENT ID: MW-1 2 101 CAL LAB NO: 20336-2

<u>PP#</u>	<u>VOLATILES</u>	<u>ug/Kg</u>
2V	acrolein	<1000
3V	acrylonitrile	<1000
4V	benzene	<200
6V	carbon tetrachloride	<200
7V	chlorobenzene	<200
10V	1,2-dichloroethane	<200
11V	1,1,1-trichloroethane	<200
13V	1,1-dichloroethane	<200
14V	1,1,2-trichloroethane	<200
15V	1,1,2,2-tetrachloroethane	<200
16V	chloroethane	<200
19V	2-chloroethylvinyl ether	<1000
23V	chloroform	<200
29V	1,1-dichloroethene	<200
30V	trans-1,2-dichloroethene	<200
32V	1,2-dichloropropane	<200
33V	1,3-dichloropropene	<200
38V	ethylbenzene	500
44V	methylene chloride	<500
45V	chloromethane	<200
46V	bromomethane	<200
47V	bromoform	<200
48V	bromodichloromethane	<200
49V	fluorotrichloromethane	<200
50V	dichlorodifluoromethane	<200
51V	chlorodibromomethane	<200
85V	tetrachloroethene	<200
86V	toluene	<200
87V	trichloroethene	<200
88V	vinyl chloride	<200

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

CL13	acetone	<500
CL14	2-butanone	<500
CL15	carbonyl sulfide	<200
CL16	2-hexanone	<500
CL17	4-methyl-2-pentanone	<500
CL18	styrene	<200
CL19	vinyl acetate	<1000
CL20	total xylenes	420

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: D Brooks
Approved by: M. J.

Date: 3/4/85

EPA METHOD 625 PRIORITY POLLUTANTS
Data Sheet

CLIENT ID: MW-1 2 10'

CAL LAB No: 20336-2

<u>PP#</u>	<u>ACID COMPOUNDS</u>	<u>ug/Kg</u>	<u>PP#</u>	<u>BASE/NEUTRAL COMPOUNDS</u>	<u>ug/Kg</u>
21A	2,4,6-trichlorophenol	<20000	40B	4-chlorophenyl phenyl ether	<20000
22A	p-chloro-m-cresol	<20000	41B	4-bromophenyl phenyl ether	<20000
24A	2-chlorophenol	<20000	42B	bis(2-chloroisopropyl) ether	<40000
31A	2,4-dichlorophenol	<20000	43B	bis(2-chloroethoxy) methane	<40000
34A	2,4-dimethylphenol	<20000	52B	hexachlorobutadiene	<20000
57A	2-nitrophenol	<40000	53B	hexachlorocyclopentadiene	<20000
58A	4-nitrophenol	<100000	54B	isophorone	<20000
59A	2,4-dinitrophenol	<100000	55B	naphthalene	<20000
60A	4,6-dinitro-o-cresol	<40000	56B	nitrobenzene	<20000
64A	pentachlorophenol	<20000	62B	N-nitrosodiphenylamine	<20000
65A	phenol	<20000	63B	N-nitrosodipropylamine	<20000
			66B	bis(2-ethylhexyl)phthalate	<20000
			67B	benzyl butyl phthalate	<20000
			68B	di-n-butyl phthalate	<20000
			69B	di-n-octyl phthalate	<20000
18	acenaphthene	<20000	70B	diethyl phthalate	<20000
58	benzidine	<80000	71B	dimethyl phthalate	<20000
88	1,2,4-trichlorobenzene	<20000	72B	benzo(a)anthracene	<20000
98	hexachlorobenzene	<20000	73B	benzo(a)pyrene	<40000
128	hexachloroethane	<20000	74B	benzo(b)fluoranthene	<40000*
188	bis(2-chloroethyl)ether	<20000	75B	benzo(k)fluoranthene	<40000*
208	2-chloronaphthalene	<20000	76B	chrysene	<40000
258	1,2-dichlorobenzene	<20000	77B	acenaphthylene	<20000
268	1,3-dichlorobenzene	<20000	78B	anthracene	<20000
278	1,4-dichlorobenzene	<20000	79B	benzo(ghi)perylene	<40000
288	3,3'-dichlorobenzidine	<40000	80B	fluorene	<20000
358	2,4-dinitrotoluene	<40000	81B	phenanthrene	15000
368	2,6-dinitrotoluene	<40000	82B	dibenzo(a,h)anthracene	<40000
378	1,2-diphenylhydrazine (as azobenzene)	<40000	83B	indeno(1,2,3-cd)pyrene	<40000
398	fluoranthene	<20000	84B	pyrene	<20000
1.	aldrin	<50000	8.	dieldrin	<50000
2.	B-BHC	<50000	9.	endosulfan sulfate	<100000
3.	D-BHC	<50000	10.	endrin aldehyde	<100000
4.	chlordane	<500000	11.	heptachlor	<50000
5.	4,4'-DDD	<50000	12.	heptachlor epoxide	<50000
6.	4,4'-DDE	<50000	13.	PCB	<500000
7.	4,4'-DDT	<50000	14.	toxaphene	<1000000

* - compounds co-elute - analysed as a single compound
The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: D Brooks

Approved by: Haij Date: 3/7/87

WATER SAMPLES

C.A.M. METALS
Data Sheet

SAMPLE ID: MW-1A-1E 1/22/85

CAL ID: 20156-1

Element	Total (TTLC) Regulatory Values (mg/Kg wet wt.)	Total Found (mg/L)	Leachable (STLC) Regulatory Values (mg/L in leachate)	Leachable Found (mg/L)
Arsenic	500	<1	5	xxx
Antimony	500	<1	15	xxx
Barium	10000	<0.5	100	xxx
Beryllium	75	<0.05	0.75	xxx
Cadmium	100	<0.1	1	xxx
*Chromium III/VI	2500/500	<0.1	560/5	xxx
Cobalt	8000	<0.1	80	xxx
Copper	2500	<0.1	25	xxx
Lead	1000	<0.1	5	xxx
Mercury	20	<0.01	0.2	xxx
Molybdenum	3500	<1	350	xxx
Nickel	2000	<0.1	20	xxx
Selenium	100	<0.5	1	xxx
Silver	500	<0.5	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	<0.5	24	xxx
Zinc	5000	<0.1	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY
APPROVED BY

10/05
10/05

DATE

2/19/85

EPA METHOD 624 (EXPANDED)
Data sheet

CLIENT ID: MW-1A-1E

CAL LAB NO: 20156-1

<u>PP#</u>	<u>VOLATILES</u>	<u>ug/L</u>
2V	acrolein	<100
3V	acrylonitrile	<100
4V	benzene	<5
6V	carbon tetrachloride	<5
7V	chlorobenzene	<5
10V	1,2-dichloroethane	<5
11V	1,1,1-trichloroethane	<5
13V	1,1-dichloroethane	<5
14V	1,1,2-trichloroethane	<5
15V	1,1,2,2-tetrachloroethane	<10
16V	chloroethane	<10
19V	2-chloroethylvinyl ether	<10
23V	chloroform	<5
29V	1,1-dichloroethene	<5
30V	trans-1,2-dichloroethene	<5
32V	1,2-dichloropropane	<10
33V	1,3-dichloropropene	<5
38V	ethylbenzene	<5
44V	methylene chloride	<5
45V	chloromethane	<10
46V	bromomethane	<10
47V	bromoform	<10
48V	bromodichloromethane	<5
49V	fluorotrichloromethane	<10
50V	dichlorodifluoromethane	<10
51V	chlorodibromomethane	<5
85V	tetrachloroethene	<5
86V	toluene	<5
87V	trichloroethene	<5
88V	vinyl chloride	<10

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

CL13	acetone	<5
CL14	2-butanone	<5
CL15	carbonyl sulfide	<5
CL16	2-hexanone	<5
CL17	4-methyl-2-pentanone	<5
CL18	styrene	<5
CL19	vinyl acetate	<5
CL20	total xylenes	<5

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: DBW/KS

Approved by: ADM

Date: 2/12/85

EPA METHOD 625 PRIORITY POLLUTANTS
Data Sheet

CLIENT ID: MW-1A-1E

CAL LAB No: 20156-1

PP#	ACID COMPOUNDS	ug/L	PP#	BASE/NEUTRAL COMPOUNDS	ug/L
21A	2,4,6-trichlorophenol	<10	40B	4-chlorophenyl phenyl ether	<10
22A	p-chloro-m-cresol	<10	41B	4-bromophenyl phenyl ether	<10
24A	2-chlorophenol	<10	42B	bis(2-chloroisopropyl) ether	<20
31A	2,4-dichlorophenol	<10	43B	bis(2-chloroethoxy) methane	<20
34A	2,4-dimethylphenol	<10	52B	hexachlorobutadiene	<10
57A	2-nitrophenol	<20	53B	hexachlorocyclopentadiene	<10
58A	4-nitrophenol	<50	54B	isophorone	<10
59A	2,4-dinitrophenol	<50	55B	naphthalene	<10
60A	4,6-dinitro-o-cresol	<20	56B	nitrobenzene	<10
64A	pentachlorophenol	<10	62B	N-nitrosodiphenylamine	<10
65A	phenol	<10	63B	N-nitrosodipropylamine	<10
	<u>BASE/NEUTRAL COMPOUNDS</u>		66B	bis(2-ethylhexyl)phthalate	<10
	1B acenaphthene	<10	67B	benzyl butyl phthalate	<10
	58 benzidine	<40	68B	di-n-butyl phthalate	<10
	88 1,2,4-trichlorobenzene	<10	69B	di-n-octyl phthalate	<10
	98 hexachlorobenzene	<10	70B	diethyl phthalate	<10
	12B hexachloroethane	<10	71B	dimethyl phthalate	<10
	18B bis(2-chloroethyl)ether	<10	72B	benzo(a)anthracene	<10
	20B 2-chloronaphthalene	<10	73B	benzo(a)pyrene	<20
	25B 1,2-dichlorobenzene	<10	74B	benzo(b)fluoranthene	<20*
	26B 1,3-dichlorobenzene	<10	75B	benzo(k)fluoranthene	<20*
	27B 1,4-dichlorobenzene	<10	76B	chrysene	<20
	28B 3,3'-dichlorobenzidine	<20	77B	acenaphthylene	<10
	35B 2,4-dinitrotoluene	<20	78B	anthracene	<10
	36B 2,6-dinitrotoluene	<20	79B	benzo(ghi)perylene	<20
	37B 1,2-diphenylhydrazine (as azobenzene)	<20	80B	fluorene	<10
	39B fluoranthene	<10	81B	phenanthrene	<10
1.	aldrin	<10	82B	dibenzo(a,h)anthracene	<20
2.	B-BHC	<10	83B	indeno(1,2,3-cd)pyrene	<20
3.	D-BHC	<10	84B	pyrene	<10
4.	chlordane	<100	8.	dieldrin	<10
5.	4,4'-DDD	<10	9.	endosulfan sulfate	<20
6.	4,4'-DDE	<10	10.	endrin aldehyde	<20
7.	4,4'-DDT	<10	11.	heptachlor	<10
			12.	heptachlor epoxide	<10
			13.	PCB	<50
			14.	toxaphene	<500

* - compounds co-elute - analysed as a single compound
The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

PREPARED BY:

D. Brack S

APPROVED BY:

M.M.

DATE: 2/12/85

C.A.M. METALS
Data Sheet

SAMPLE ID: MW-2A-2E 1/22/85

CAL ID: 20156-2

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/L)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<1	5	xxx
Antimony	500	<1	15	xxx
Barium	10000	<0.5	100	xxx
Beryllium	75	<0.05	0.75	xxx
Cadmium	100	<0.1	1	xxx
*Chromium III/VI	2500/500	<0.1	560/5	xxx
Cobalt	8000	<0.1	80	xxx
Copper	2500	<0.1	25	xxx
Lead	1000	<0.1	5	xxx
Mercury	20	<0.01	0.2	xxx
Molybdenum	3500	<1	350	xxx
Nickel	2000	<0.1	20	xxx
Selenium	100	<0.5	1	xxx
Silver	500	<0.5	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	<0.5	24	xxx
Zinc	5000	<0.1	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY
APPROVED BY

lde
lde

DATE

2/19/85

EPA METHOD 624 (EXPANDED)
Data sheet

CLIENT ID: MW-2A-2E

CAL LAB NO: 20156-2

<u>PP#</u>	<u>VOLATILES</u>	<u>ug/L</u>
2V	acrolein	<100
3V	acrylonitrile	<100
4V	benzene	<5
6V	carbon tetrachloride	<5
7V	chlorobenzene	<5
10V	1,2-dichloroethane	<5
11V	1,1,1-trichloroethane	<5
13V	1,1-dichloroethane	<5
14V	1,1,2-trichloroethane	<5
15V	1,1,2,2-tetrachloroethane	<10
16V	chloroethane	<10
19V	2-chloroethylvinyl ether	<10
23V	chloroform	<5
29V	1,1-dichloroethene	<5
30V	trans-1,2-dichloroethene	<5
32V	1,2-dichloropropane	<10
33V	1,3-dichloropropene	<5
38V	ethylbenzene	<5
44V	methylene chloride	<5
45V	chloromethane	<10
46V	bromomethane	<10
47V	bromoform	<10
48V	bromodichloromethane	<5
49V	fluorotrichloromethane	<10
50V	dichlorodifluoromethane	<10
51V	chlorodibromomethane	<5
85V	tetrachloroethene	<5
86V	toluene	<5
87V	trichloroethene	<5
88V	vinyl chloride	<10

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

CL13	acetone	<5
CL14	2-butanone	<5
CL15	carbonyl sulfide	<5
CL16	2-hexanone	<5
CL17	4-methyl-2-pentanone	<5
CL18	styrene	<5
CL19	vinyl acetate	<5
CL20	total xylenes	<5

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by:

DBczks

Approved by:

MJM

Date: 2/12/85

EPA METHOD 625 PRIORITY POLLUTANTS
Data Sheet

CLIENT ID: MW-2A-2E

CAL LAB No: 20156-2

<u>PP#</u>	<u>ACID COMPOUNDS</u>	<u>ug/L</u>	<u>PP#</u>	<u>BASE/NEUTRAL COMPOUNDS</u>	<u>ug/L</u>
21A	2,4,6-trichlorophenol	<10	40B	4-chlorophenyl phenyl ether	<10
22A	p-chloro-m-cresol	<10	41B	4-bromophenyl phenyl ether	<10
24A	2-chlorophenol	<10	42B	bis(2-chloroisopropyl) ether	<20
31A	2,4-dichlorophenol	<10	43B	bis(2-chlorothoxy) methane	<20
34A	2,4-dimethylphenol	<10	52B	hexachlorobutadiene	<10
57A	2-nitrophenol	<20	53B	hexachlorocyclopentadiene	<10
58A	4-nitrophenol	<50	54B	isophorone	<10
59A	2,4-dinitrophenol	<50	55B	naphthalene	<10
60A	4,6-dinitro-o-cresol	<20	56B	nitrobenzene	<10
64A	pentachlorophenol	<10	62B	N-nitrosodiphenylamine	<10
65A	phenol	<10	63B	N-nitrosodipropylamine	<10
	<u>BASE/NEUTRAL COMPOUNDS</u>		66B	bis(2-ethylhexyl)phthalate	<10
16	acenaphthene	<10	67B	benzyl butyl phthalate	<10
58	benzidine	<40	68B	di-n-butyl phthalate	<10
88	1,2,4-trichlorobenzene	<10	70B	diethyl phthalate	<10
98	hexachlorobenzene	<10	71B	dimethyl phthalate	<10
128	hexachloroethane	<10	72B	benzo(a)anthracene	<10
188	bis(2-chloroethyl)ether	<10	73B	benzo(a)pyrene	<20
20B	2-chloronaphthalene	<10	74B	benzo(b)fluoranthene	<20*
25B	1,2-dichlorobenzene	<10	75B	benzo(k)fluoranthene	<20*
26B	1,3-dichlorobenzene	<10	76B	chrysene	<20
27B	1,4-dichlorobenzene	<10	77B	acenaphthylene	<10
28B	3,3'-dichlorobenzidine	<20	78B	anthracene	<10
35B	2,4-dinitrotoluene	<20	79B	benzo(ghi)perylene	<20
36B	2,6-dinitrotoluene	<20	80B	fluorene	<10
37B	1,2-diphenylhydrazine (as szobenzene)	<20	81B	phenanthrene	<10
39B	fluoranthene	<10	82B	dibenzo(a,h)anthracene	<20
1.	aldrin	<10	83B	indeno(1,2,3-ca)pyrene	<20
2.	B-BHC	<10	84B	pyrene	<10
3.	D-BHC	<10			
4.	chlordane	<100	8.	dieldrin	<10
5.	4,4'-DDD	<10	9.	endosulfan sulfate	<20
6.	4,4'-DDF	<10	10.	endrin aldehyde	<20
7.	4,4'-DDT	<10	11.	heptachlor	<10
			12.	heptachlor epoxide	<10
			13.	PCB	<50
			14.	toxaphene	<500

* - compounds co-elute - analysed as a single compound
The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

PREPARED BY: *DB Becker*
APPROVED BY: *NOM*

DATE: 2/12/85

C.A.M. METALS
Data Sheet

SAMPLE ID: MW-3A-3E 1/22/85

CAL ID: 20156-3

<u>Element</u>	<u>Total (TTLC) Regulatory Values (mg/Kg wet wt.)</u>	<u>Total Found (mg/L)</u>	<u>Leachable (STLC) Regulatory Values (mg/L in leachate)</u>	<u>Leachable Found (mg/L)</u>
Arsenic	500	<1	5	xxx
Antimony	500	<1	15	xxx
Barium	10000	<0.5	100	xxx
Beryllium	75	<0.05	0.75	xxx
Cadmium	100	<0.1	1	xxx
*Chromium III/VI	2500/500	<0.1	560/5	xxx
Cobalt	8000	<0.1	80	xxx
Copper	2500	<0.1	25	xxx
Lead	1000	<0.1	5	xxx
Mercury	20	<0.01	0.2	xxx
Molybdenum	3500	<1	350	xxx
Nickel	2000	<0.1	20	xxx
Selenium	100	<0.5	1	xxx
Silver	500	<0.5	5	xxx
Thallium	700	<1	7	xxx
Vanadium	2400	<0.5	24	xxx
Zinc	5000	<0.1	250	xxx

Regulatory values from January 1984 CAM (California Department of Health Services).

*Reported as Cr III plus Cr VI.

PREPARED BY _____
APPROVED BY _____

DATE

1/19/85

EPA METHOD 624 (EXPANDED)
Data sheet

CLIENT ID: MW-3A-3E

CAL LAB NO: 20156-3

PP#	VOLATILES	<u>ug/L</u>
2V	acrolein	<100
3V	acrylonitrile	<100
4V	benzene	<5
6V	carbon tetrachloride	<5
7V	chlorobenzene	<5
10V	1,2-dichloroethane	<5
11V	1,1,1-trichloroethane	<5
13V	1,1-dichloroethane	<5
14V	1,1,2-trichloroethane	<5
15V	1,1,2,2-tetrachloroethane	<10
16V	chloroethane	<10
19V	2-chloroethylvinyl ether	<10
23V	chloroform	<5
29V	1,1-dichloroethene	<5
30V	trans-1,2-dichloroethene	<5
32V	1,2-dichloropropane	<10
33V	1,3-dichloropropene	<5
38V	ethylbenzene	<5
44V	methylene chloride	<5
45V	chloromethane	<10
46V	bromomethane	<10
47V	bromoform	<10
48V	bromodichloromethane	<5
49V	fluorotrichloromethane	<10
50V	dichlorodifluoromethane	<10
51V	chlorodibromomethane	<5
85V	tetrachloroethene	<5
86V	toluene	<5
87V	trichloroethene	<5
88V	v vinyl chloride	<10

NON-PRIORITY POLLUTANT HAZARDOUS SUBSTANCES LIST COMPOUNDS

CL13	acetone	<5
CL14	2-butanone	<5
CL15	carbonyl sulfide	<5
CL16	2-hexanone	<5
CL17	4-methyl-2-pentanone	<5
CL18	styrene	<5
CL19	vinyl acetate	<5
CL20	total xylenes	<5

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

Prepared by: JMB/SK/S

Approved by: MJM

Date: 2/12/05

EPA METHOD 625 PRIORITY POLLUTANTS
Data Sheet

CLIENT ID: MW-3A-3E

CAL LAB No: 20156-3

<u>PP#</u>	<u>ACID COMPOUNDS</u>	<u>ug/L</u>	<u>PP#</u>	<u>BASE/NEUTRAL COMPOUNDS</u>	<u>ug/L</u>
21A	2,4,6-trichlorophenol	<10	408	4-chlorophenyl phenyl ether	<10
22A	p-chloro-m-cresol	<10	418	4-bromophenyl phenyl ether	<10
24A	2-chlorophenol	<10	428	bis(2-chloroisopropyl) ether	<20
31A	2,4-dichlorophenol	<10	438	bis(2-chloroethoxy) methane	<20
34A	2,4-dimethylphenol	<10	528	hexachlorobutadiene	<10
57A	2-nitrophenol	<20	538	hexachlorocyclopentadiene	<10
58A	4-nitrophenol	<50	548	isophorone	<10
59A	2,4-dinitrophenol	<50	558	naphthalene	<10
60A	4,6-dinitro-o-cresol	<20	568	nitrobenzene	<10
66A	pentachlorophenol	<10	628	N-nitrosodiphenylamine	<10
65A	phenol	<10	638	N-nitrosodipropylamine	<10
	<u>BASE/NEUTRAL COMPOUNDS</u>		668	bis(2-ethylhexyl)phthalate	<10
			678	benzyl butyl phthalate	<10
			688	di-n-butyl phthalate	<10
1B	acenaphthene	<10	698	di-n-octyl phthalate	<10
5B	benzidine	<40	708	diethyl phthalate	<10
8B	1,2,4-trichlorobenzene	<10	718	dimethyl phthalate	<10
9B	hexachlorobenzene	<10	728	benzo(a)anthracene	<10
12B	hexachloroethane	<10	738	benzo(a)pyrene	<20
18B	bis(2-chloroethyl)ether	<10	748	benzo(b)fluoranthene	<20*
20B	2-chloronaphthalene	<10	758	benzo(k)fluoranthene	<20*
25B	1,2-dichlorobenzene	<10	768	chrysene	<20
26B	1,3-dichlorobenzene	<10	778	acenaphthylene	<10
27B	1,4-dichlorobenzene	<10	788	anthracene	<10
28B	3,3'-dichlorobenzidine	<20	798	benzo(ghi)perylene	<20
35B	2,4-dinitrotoluene	<20	808	fluorene	<10
36B	2,6-dinitrotoluene	<20	818'	phenanthrene	<10
37B	1,2-diphenylhydrazine (as azobenzene)	<20	828	dibenzo(s,h)anthracene	<20
39B	fluoranthene	<10	838	indeno(1,2,3-cd)pyrene	<20
1.	aldrin	<10	848	pyrene	<10
2.	B-BHC	<10	8.	dieldrin	<10
3.	D-BHC	<10	9.	endosulfan sulfate	<20
4.	chlordan	<100	10.	endrin aldehyde	<20
5.	4,4'-DDD	<10	11.	heptachlor	<10
6.	4,4'-DDE	<10	12.	heptachlor epoxide	<10
7.	4,4'-DDT	<10	13.	PCB	<50
			14.	toxaphene	<500

* - compounds co-elute - analysed as a single compound

The less-than (<) symbol means "not present at or above the indicated value (detection limit)".

PREPARED BY:

DB MK

APPROVED BY:

MJN

DATE: 2/12/85

ORGANOCHLORINE PESTICIDES AND PCB'S
EPA Method 608

Sample I.D.MW3A-3E

CAL I.D. 20156-2

<u>OC Compound</u>	<u>ug/L (ppb) or ug/g (ppm)</u>
alpha-BHC	<0.05
gamma-BHC	<0.05
beta-BHC	<0.05
heptachlor	<0.05
delta-BHC	<0.05
aldrin	<0.05
heptachlor epoxide	<0.05
endosulfan I/II	<0.1
p,p'-DDE	<0.1
dieldrin	<0.1
endrin	<0.1
p,p'-DDD	<0.2
p,p'-DDT	<0.2
endrin aldehyde	<0.2
endosulfan sulfate	<0.2
methoxychlor	<1
PCB-1242	<1
PCB-1248	<1
PCB-1254	<1
PCB-1260	<1
chlordan	12
toxaphene	<10

PREPARED BY CJS
APPROVED BY BMO

DATE 2-19-85